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Rational Agile Day

*Agile -- La sfida per un nuovo modo di
sviluppare software*

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

Rational Agile Day, 3 Marzo Milano

Challenges to effective software delivery today

Complexity Challenges

- More granular service functionality in composite business applications
- Large number of projects and assets including custom, outsourced and packaged

Team Challenges

- Geographically dispersed teams that often include business partners
- Effective cross-organizational visibility and synchronization, sharing becomes an imperative

Process Challenges

- Need for market experimentation
- Blind adherence to process insensitive to potential business trade-offs
- Need for agility *at scale*

Tools Challenges


- Lack of standards impacts ability to collaborate, automate and report across teams and assumptions
- Frequent asset updates and changing interdependencies



How do I control this new world to gain advantage?

How Do these Challenges Affect Us?



From deliver all at one time  ...to deliver less sooner

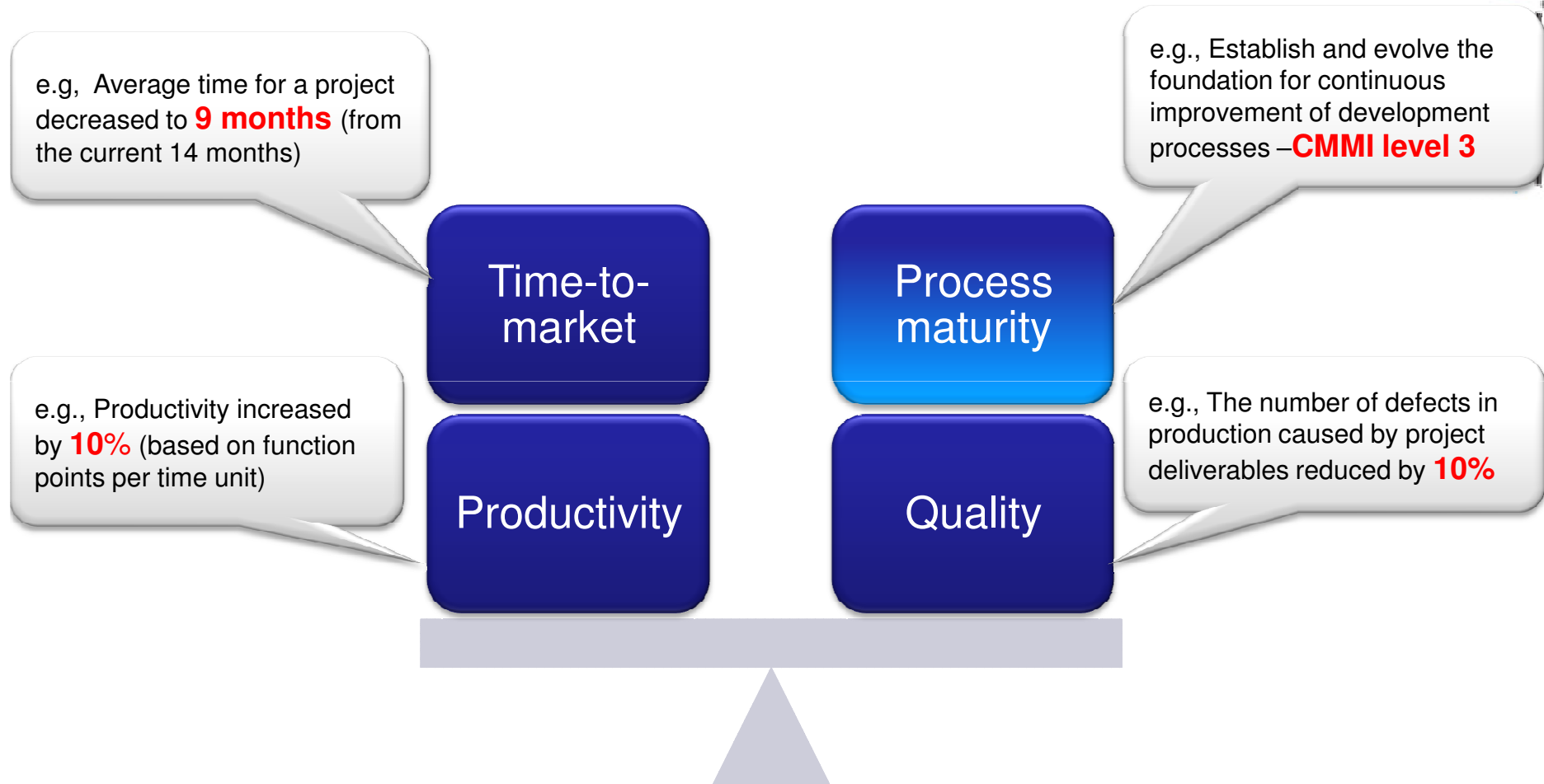
From technology driven solutions  ...to business driven solutions

From software development  ...to software delivery

From too little or too much process with blind adherence  ...to right-sized process aligned with desired result

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

We Need a Balanced Focus to Business Goals



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

What is Agile?

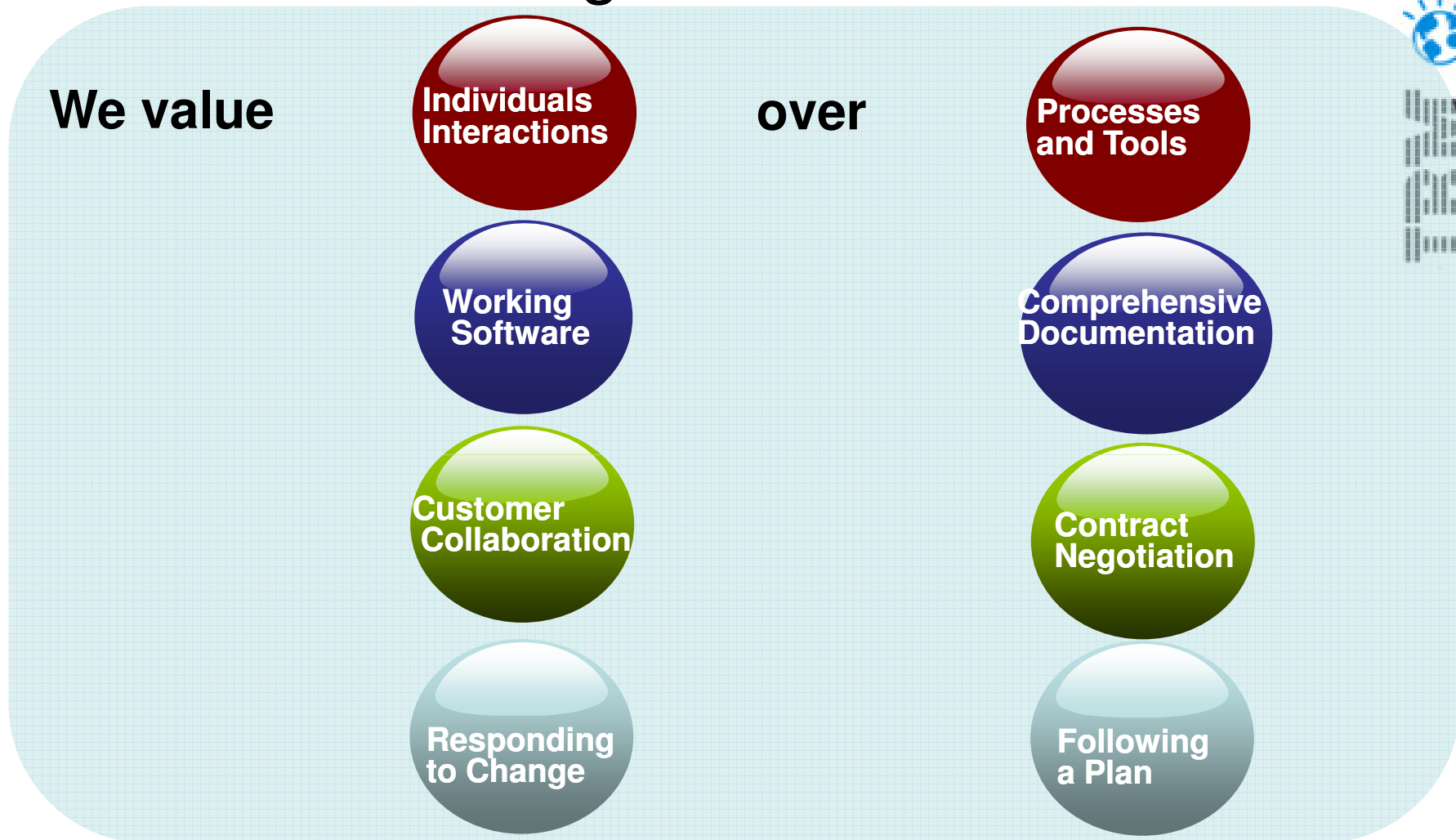


- An iterative and incremental (evolutionary) approach performed in a highly collaborative and self-organizing manner with just the right amount of ceremony to frequently produce high quality software in a cost effective and timely manner which meets the changing needs of its stakeholders.
- Core principles
 - “Fits just right” process
 - Continuous testing and validation
 - Consistent team collaboration
 - Rapid response to change
 - Ongoing customer involvement
 - Frequent delivery of working software



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

Agile values



While there is value in the items on the right, we value the items on the left more.

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

Source: www.agilemanifesto.org

Rational Agile Day, 3 Marzo Milano

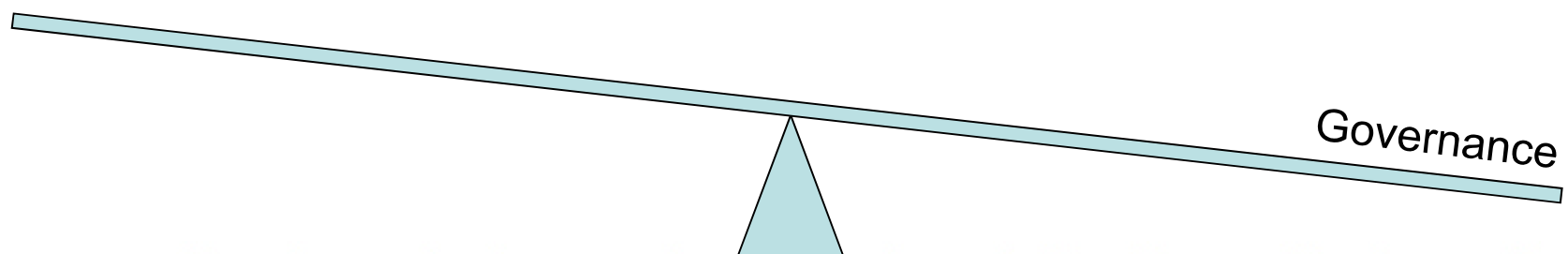
The Development Organization's View



Developer freedom

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

The Customer's View



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I falsi Miti dell'Agile Software Development

- Non richiede pianificazione
 - Non richiede documentazione
 - Non richiede training
 - Non è prevedibile
 - Non è scalabile
 - Non c'è disciplina
 - Non occorre controllare il processo
- Falso!**
- *Il piano è flessibile e adattabile*
 - *Si produce solo la documentazione che porta valore al progetto*
 - *Occorre training e mentoring per gestire i team Agile*
 - *La pianificazione è a più livelli. Solo il piano a breve termine è prevedibile in dettaglio. Il piano a lungo termine è più reattivo alle variazioni*
 - *Per scalare, un team Agile richiede un maggiore livello di cerimonia di un team piccolo e co-localizzato*
 - *Per collaborare in team e rispondere rapidamente ai cambiamenti occorre una certa disciplina*
 - *Non c'è un processo "a taglia unica". Il processo deve essere adattato al contesto di ogni progetto*

How Agile is Different?

- Focus on collaboration:
 - Less paperwork and more conversation
 - Stakeholders actively involved
- Focus on quality:
 - We have a full regression test suite for our systems
 - We develop loosely-coupled, highly cohesive architectures
 - We refactor to keep them this way
- Focus on working software:
 - Greater feedback makes agile projects easier to manage
 - Less documentation is required
 - Less bureaucracy
- Agilists are generalizing specialists:
 - Less hand offs between people
 - Less people required
 - Specialists find it difficult at first to fit into the team
- Agile is based on practice, not theory:
 - This is a significant change from traditional development methods



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

Agility is Relative



Organizational Drivers

Team Size
Geographical Distribution
Organization Distribution
Entrenched process, people, policy

- Small team
- New projects
- Simple application
- Co-located
- Minimal need for documentation

- Maturing projects
- Multi-platform
- Growing in complexity
- Remote or offshore work
- Greater need for coordination and handoffs

- Mature or existing projects
- 50+ developers
- Complex, multi-platform applications

Agility at Scale
Dealing with Complexity

Technical and Regulatory Drivers

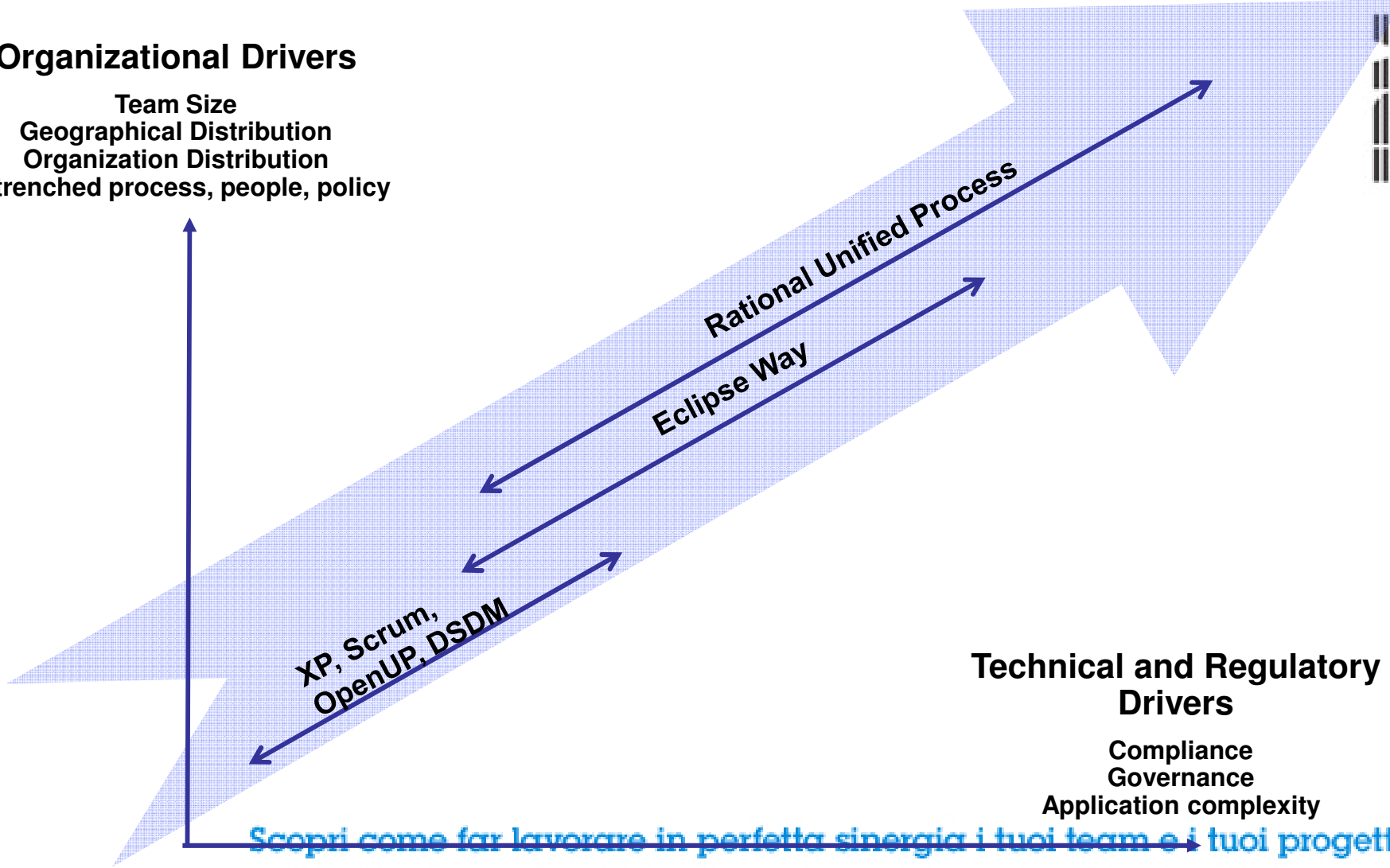
Compliance
Governance
Application complexity

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

There is No Single Agile Process

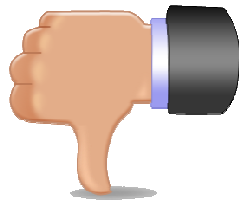


Organizational Drivers
Team Size
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Adopting agile development practices help us achieve the defined goals



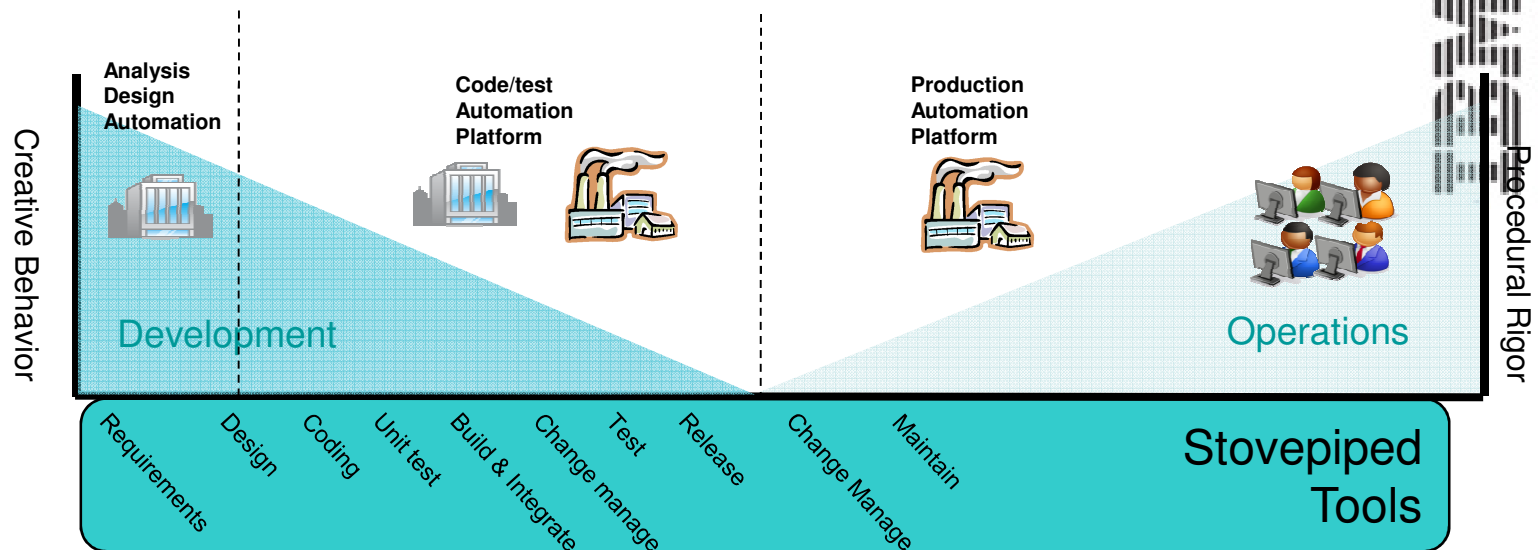
- Relative proportion of effort used on management is too high
- Requirements definition and the requirements sign-off process is too lengthy
- The change request process is cumbersome and time consuming
- Integration of the different solution elements is infrequent and done late in the project lifecycle
- A considerable “Hardening period” for the solution is needed just before and just after release in order to achieve an acceptable level of quality
- Further potential for reuse, consolidation and automation exists



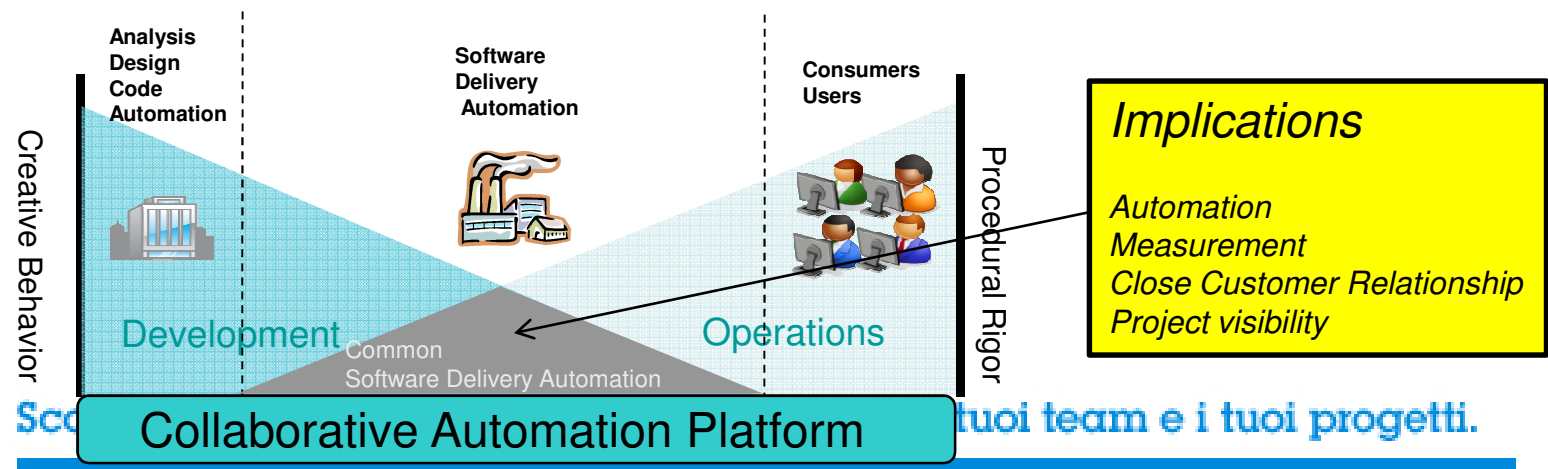
- A high degree of efficiency in the development effort (improvement of 10% or more compared to today)
- Focus on the most revenue generating or cost saving deliverables
- Higher quality solutions provided at a cost that is the same or lower than previously
- Sourcing options (including reuse potential) identified and leveraged
- Deliver solutions to the business within short releases (always <12 months but typically releases every 3-4 months for agile projects)
- Risk associated with project business deliverables and project schedule are identified and mitigated early and efficiently
- Ability to change scope as required with minimal impact on schedules and commitments
- Ability to change schedules as required with limited notice

Rethinking Software Delivery

**Waterfall
Process
Platform**



**Agile
Delivery
Process
Platform**



Application life-cycle management

The coordination of development life-cycle activities, including requirements, modeling, development, build, and testing, through:

FORRESTER®

- 1) **Process Automation** - Enforcement of processes that span these activities.
- 2) **Traceability** - Management of relationships between development artifacts used or produced by these activities.
- 3) **Reporting** - Reporting on progress of the development effort as a whole.

- ALM doesn't support specific life-cycle activities; rather, it keeps them in sync.
- ALM doesn't live in practitioner tools; it lives in the integrations between them.
- A collection of development life-cycle tools is not necessarily ALM. They need to be integrated



The Business Promise of ALM is Widely Anticipated



- Companies acquire ALM tools with the best of business-centric aspirations
 - Higher quality
 - More customer satisfaction
 - Aligning business and IT
 - Faster time to market
- Motives internal to IT also feature
 - Lower costs/higher productivity
 - More predictable delivery
- So every vendor wants to stake a claim in the ALM value proposition

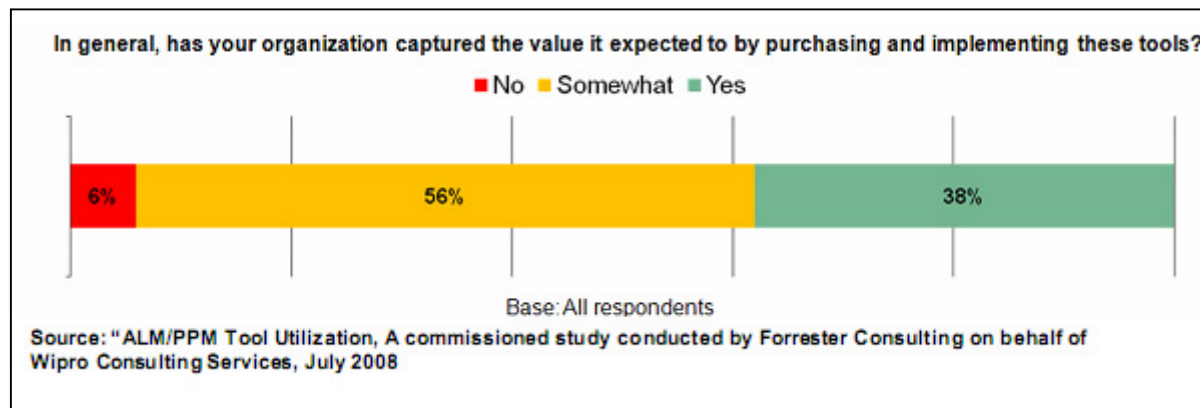


Scopri come far lavorare in perfetta sinergia i tuoi team e i tuoi progetti.

For the full study cited on this slide, see http://wipro.us/pdf/whitepaper/alm_ppm_tools_investments_gone_awry.pdf

The Business Value Outcome is Often Disappointing

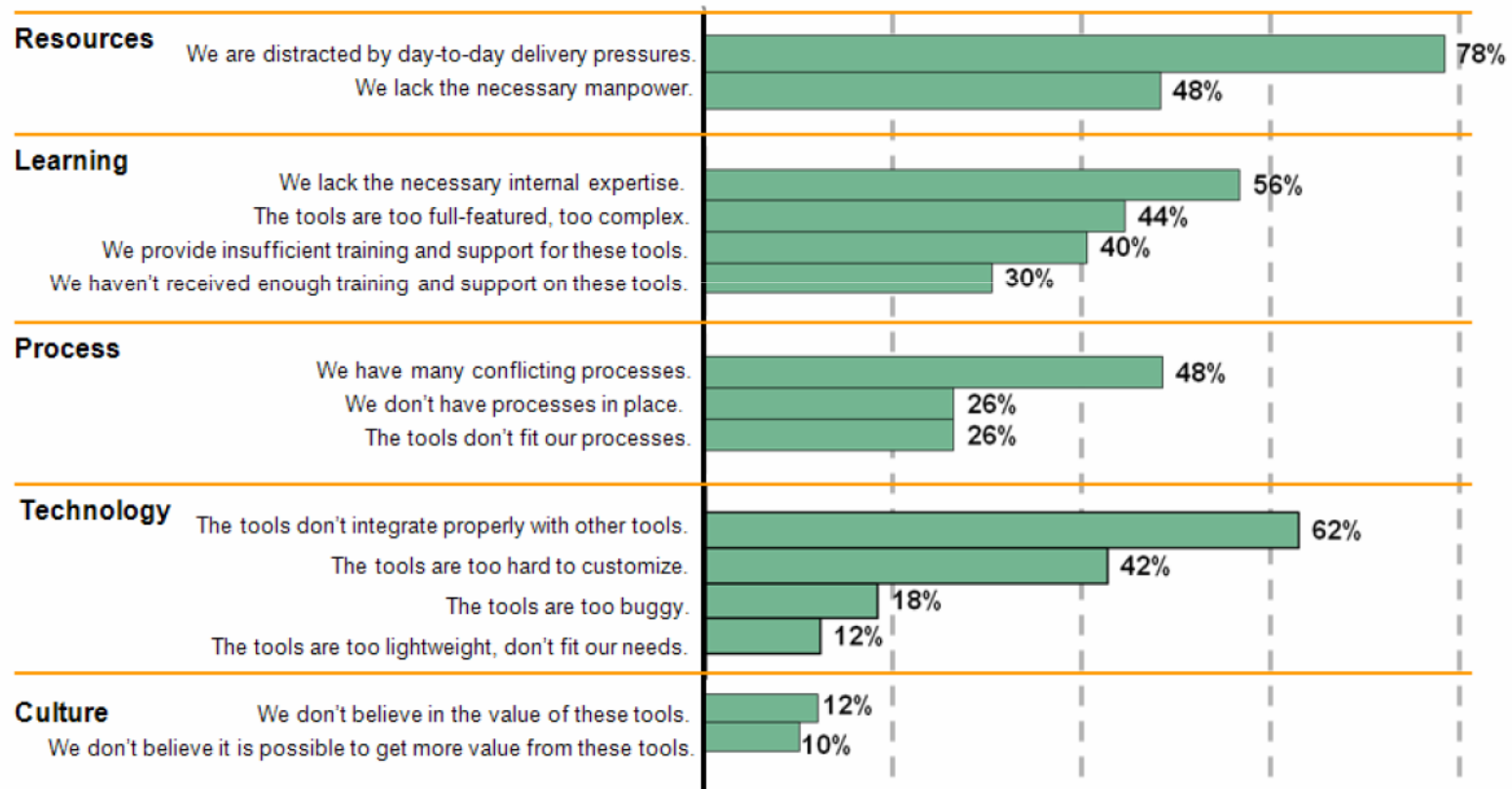
- Only 38% of surveyed respondents believe they **captured the expected value** from ALM tools.
- The other 62% were disappointed



For the full study cited on this slide, see http://wipro.us/pdf/whitepaper/alm_ppm_tools_investments_gone_awry.pdf

There are Multiple Reasons for the Disappointment

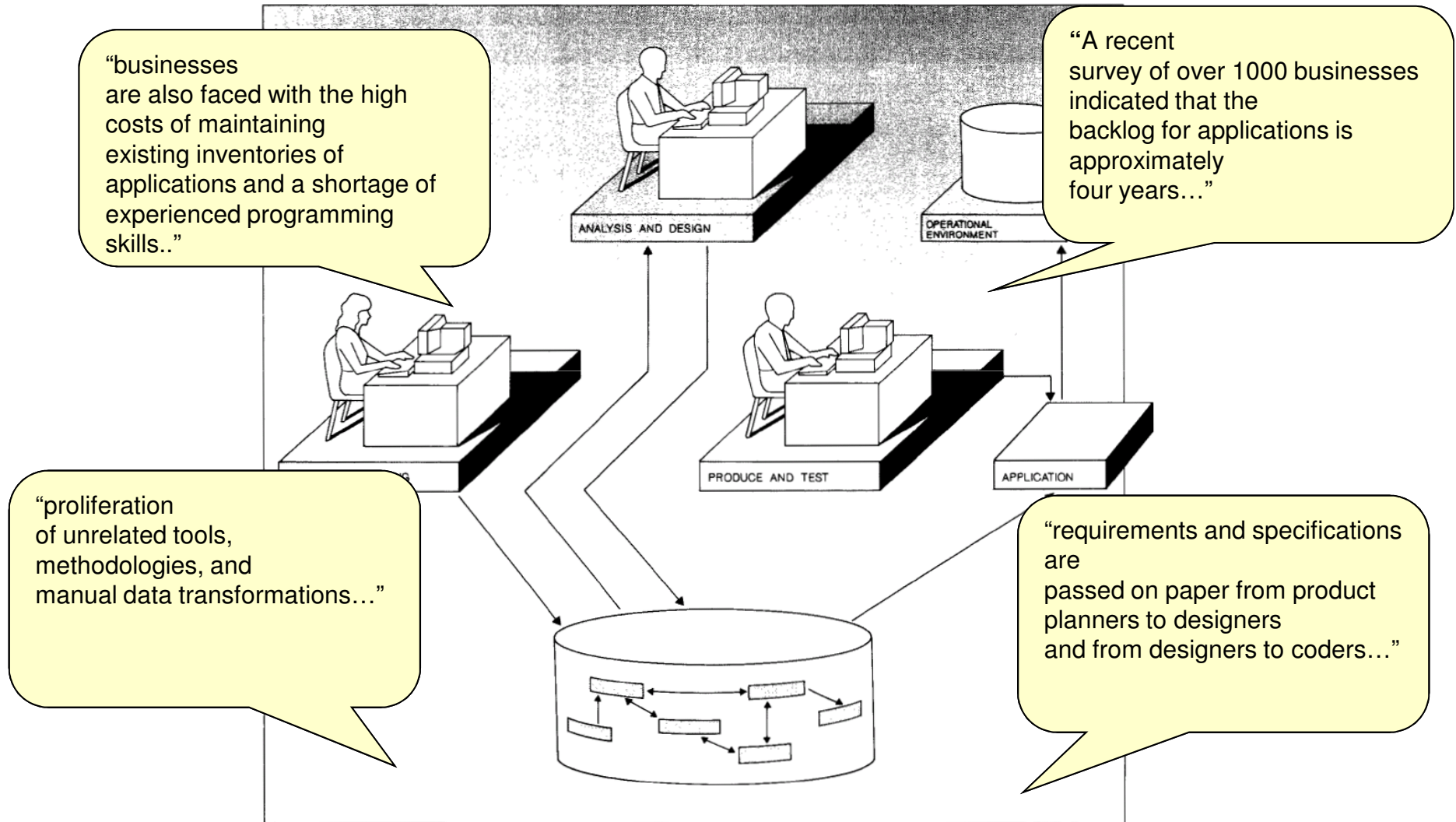
What prevents your organization from getting more value out of these tools? (select all that apply)



Base: All respondents

Source: "ALM/PPM Tool Utilization, A commissioned study conducted by Forrester Consulting on behalf of Wipro Consulting Services, July 2008

These Problems are at least 20 Years old



Source: Presentation on IBM's AD/Cycle, circa 1990!

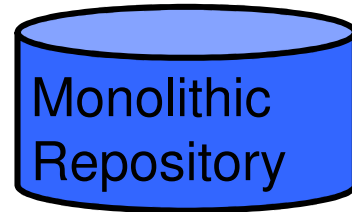
Traditional Approaches To ALM Integration Have Fallen Short



Limited choice and coverage

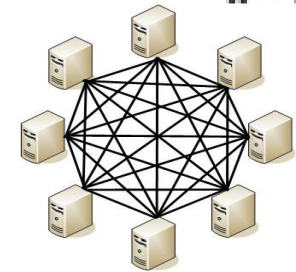
Single repository

- Hard to add existing (legacy) tools
- Difficult to evolve tools individually
- Limited to a single vendor's tools or affiliates



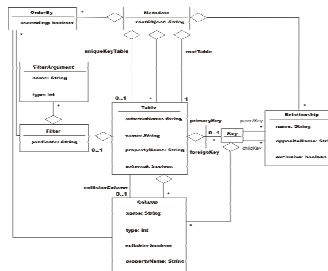
Point-to-point integrations

- Limited coverage: there are too many tools to cover more than a small fraction of possibilities
- Tight dependencies between tools require lockstep upgrades
- Proprietary APIs create vendor lock-in



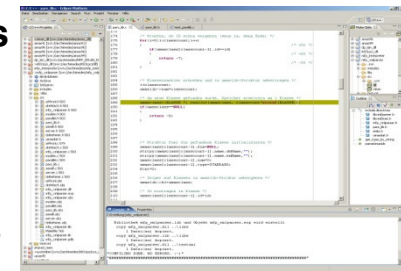
Universal metadata standard

- Too slow to complete to keep pace with the market
- Hostage to vendor in-fighting
- Difficult to migrate existing project data and assets



Standard implementations

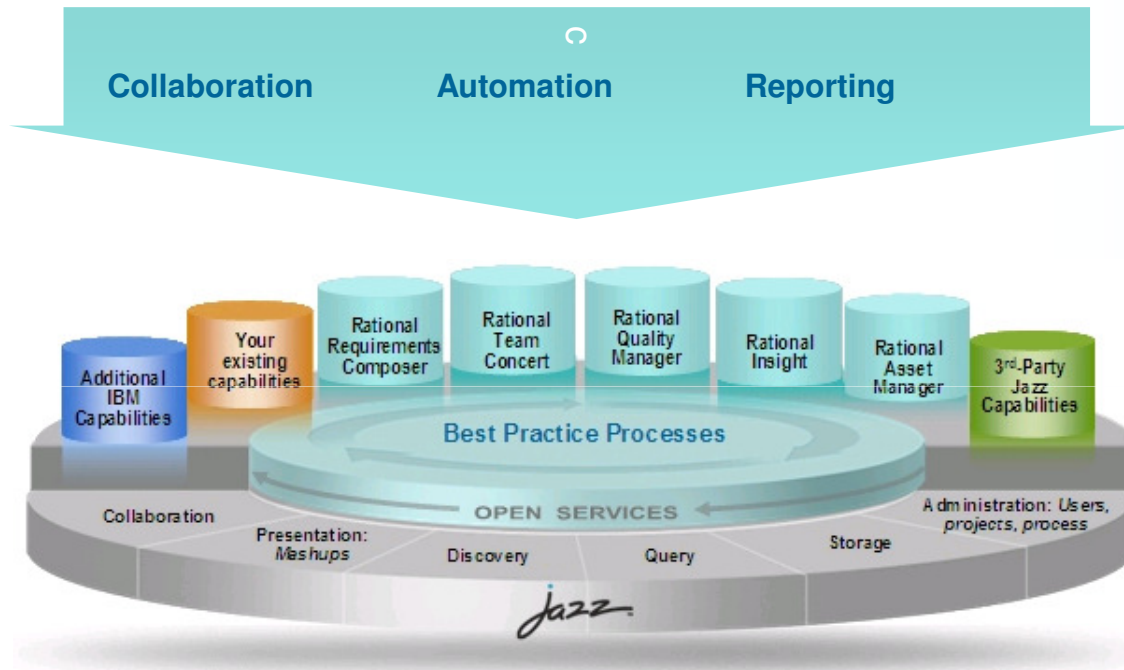
- Requires “forklift” rip and replace of existing tools
- Hard to get widespread vendor support
- Insufficiently flexible to address different user approaches



Scopri come Slow to emerge and disruptive to adopt can be leveraged in partnership with your team e i tuoi progetti.

Jazz is Something Different

An Open and Extensible Software Development Platform
Supporting *Collaborative* ALM

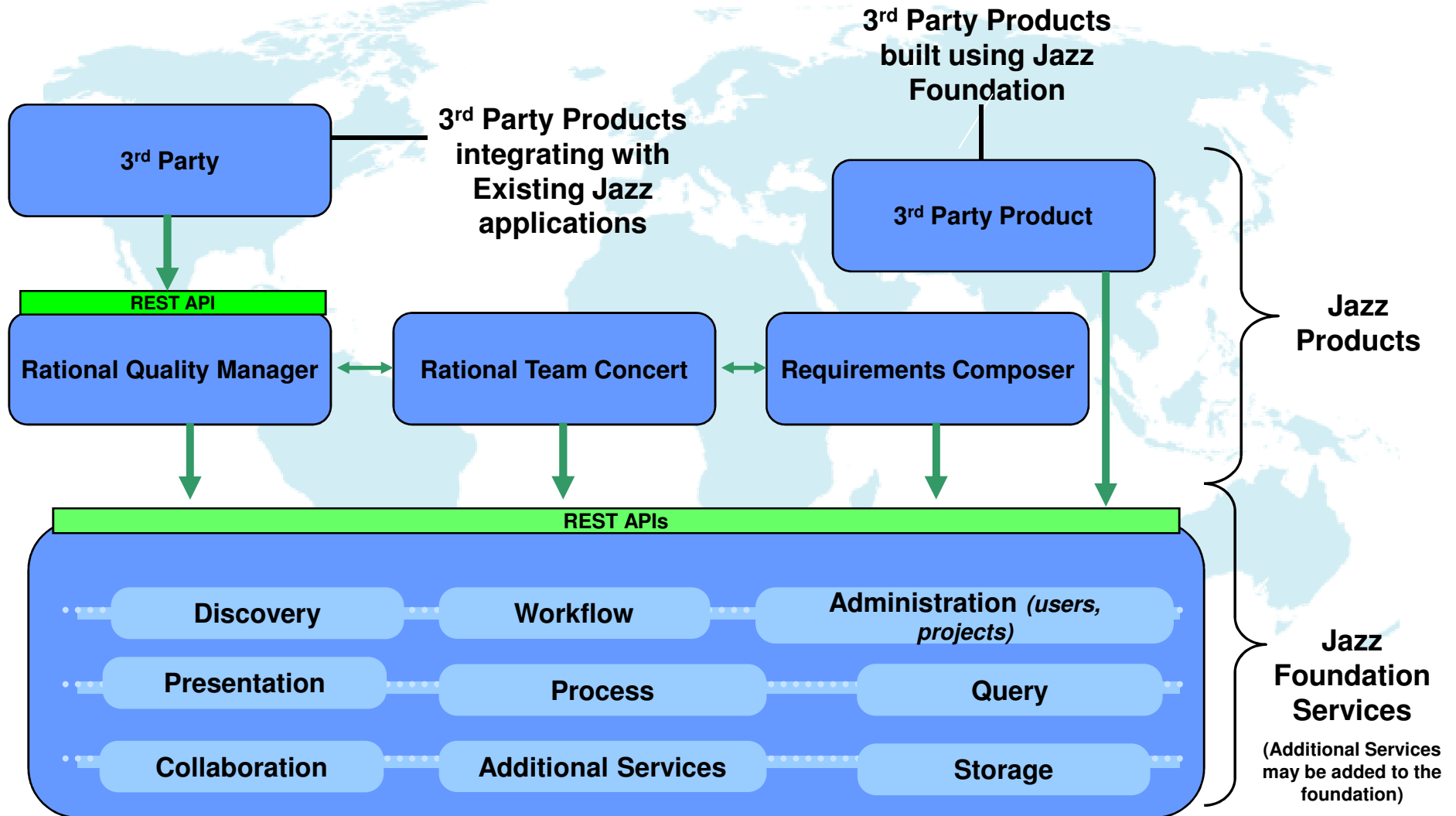


Provides

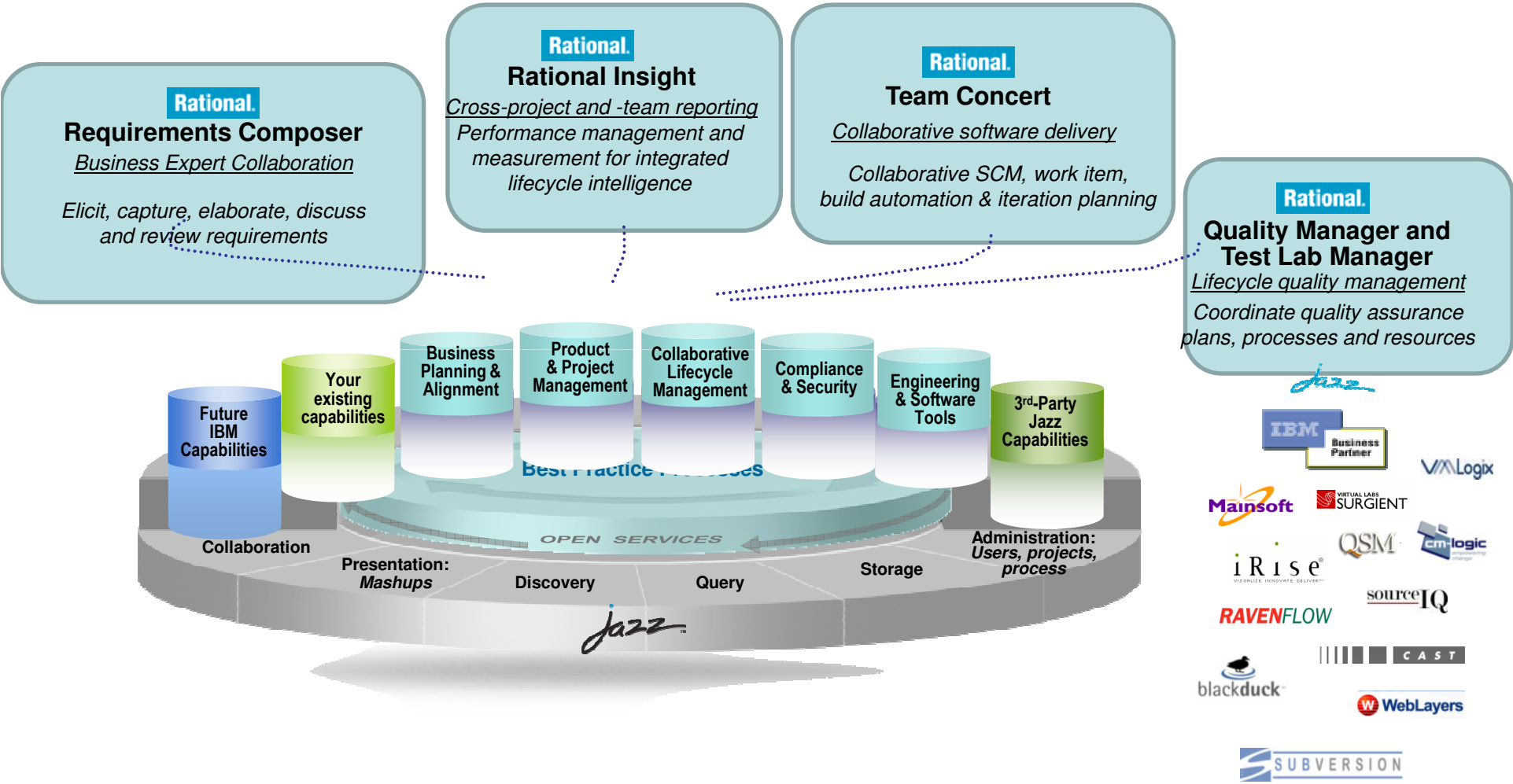
- A scalable, extensible team *collaboration* platform
- End-to-end, artifact traceability
- Flexible and configurable team-specific process
- Integrated collaboration around the lifecycle artifacts
- Access to real time information for decision making

Jazz is a project & software delivery platform for *transforming how people work together* to deliver greater value & performance from software investments.

The Jazz Foundation Architecture



First wave of products built on Jazz technology



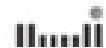
Jazz Enables Collaborative ALM



- Win-Win Tool Adoption
 - Development more effective
 - Enables Team to Focus on their Day Job, rather than Producing Status Presentations (fosters grass roots adoption)
 - Organization more effective
 - Access to real-time project status enables reality-based decisions (encourages top-down support)
- Grass Roots adoption within IBM
 - Over 60 Rational development teams using Rational Team Concert
 - More than 125 other teams around IBM
 - WebSphere Development, Lotus Development, Tivoli Development, Research, GBS, etc

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

Rational's Collaborative ALM



- "I'm Bob the Product Owner."

I am responsible for producing, prioritizing and accepting user stories.



- "I'm Scott the Scrum Master."

I coach the team, manage change, and track health and quality by collaborating with my team



Marco, Deb Dev Lead. Developer

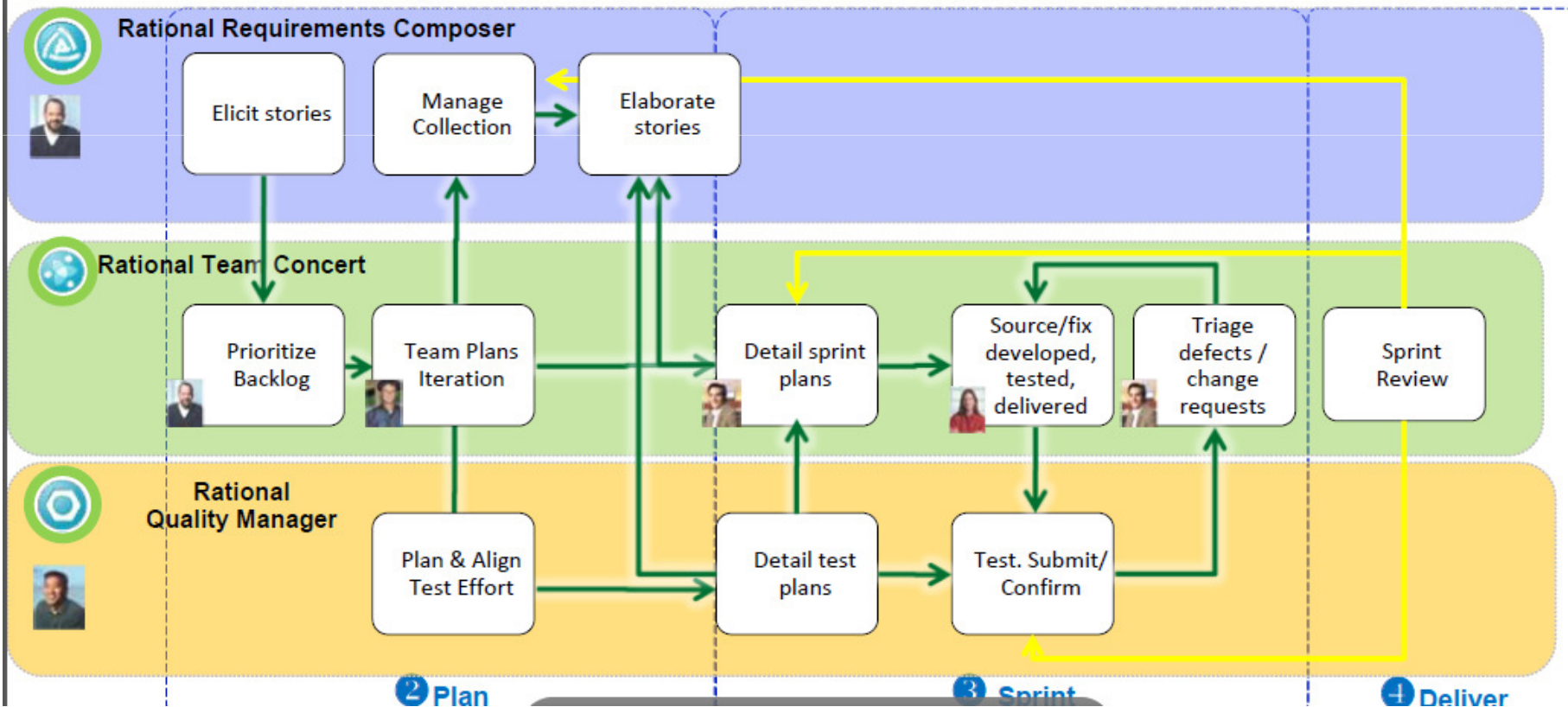


We're developers who embrace agile practices and continuous integrations.



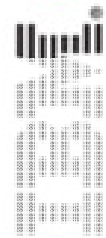
- "I'm Tanuj, a Tester in the team."

I practice concurrent testing

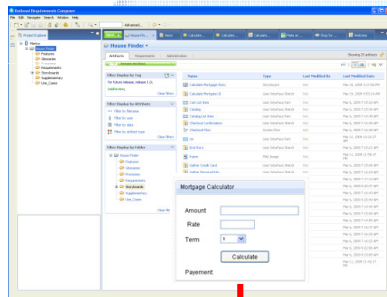


Delivering real-time, global access to project information

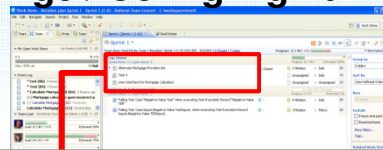
Example: requirements



Analyst
Requirements



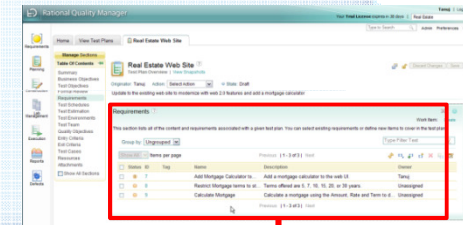
Developer
Change / Config Mgmt



Developers link to requirements from work-items

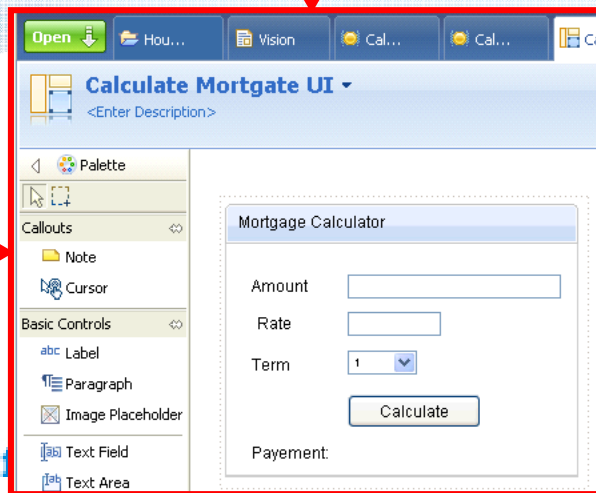


Tester
Quality Management



Testers link to requirements from test plans and test cases

Analysts communicate requirements with links to development and test plans

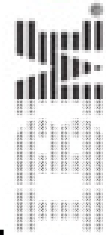


Scopri come

a i tuoi team e i tuoi progetti.

Accelerating in-context workflow

Example: Log a defect in context of test failure and requirements



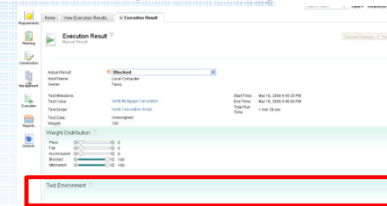
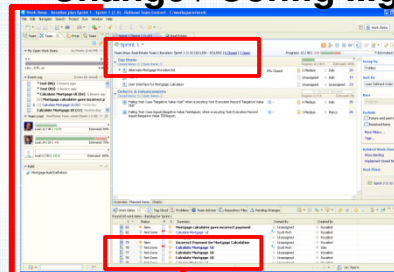
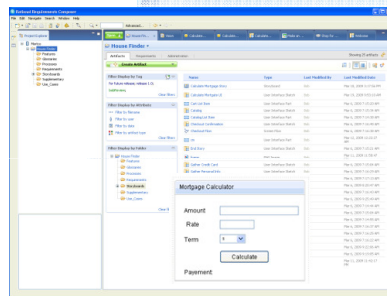
Analyst
Requirements



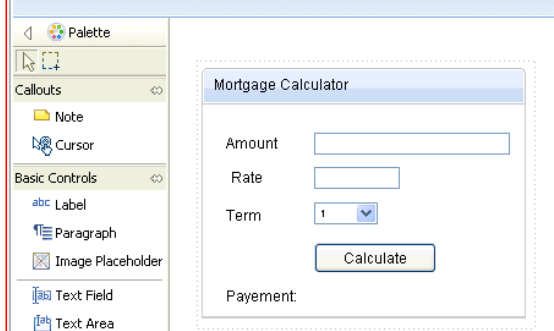
Developer
Change / Config Mgmt



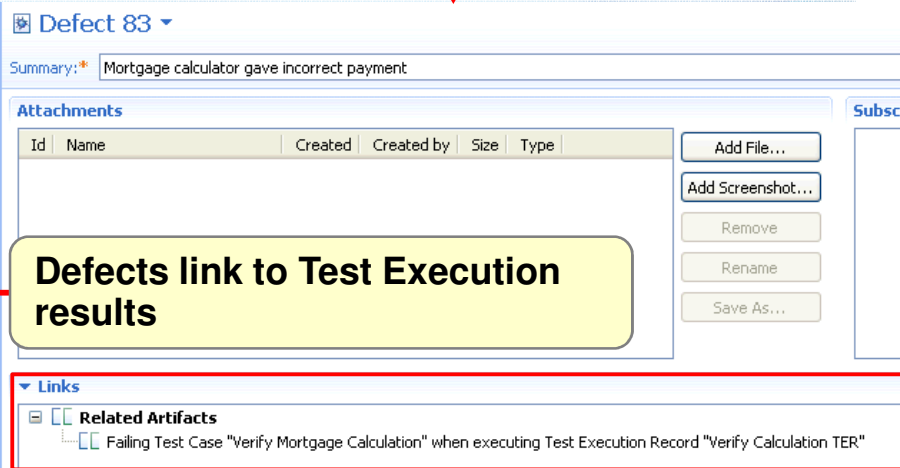
Tester
Quality Management



Defects can link to requirements



Test Execution Results link to defects



Defects link to Test Execution results

Collaborate using Workitems and Plans



Various levels of work planning

The screenshot displays the Rational Team Concert interface. On the left, a 'Defect 4273' window is open, showing details such as Type (Defect), Severity (Normal), Found In (Unassigned), Creation Date (Jun 18, 2009 3:48 PM), Created By (Tami Takamiya), Team Area (FASL Scrum / RTC for ... Project), Filed Against (FASL Backlog), Priority (High), and Planned For (Sprint 6 Development). The description of the defect discusses issues with the scm script and Build Forge Agent. On the right, a 'Work Items - Plan' window is open, showing a 'FASL Sprint 6 Development Plan' with a progress bar and a list of work items. The plan is managed by Liam Doherty and includes items like 'scm script does not work when it is invoked from Build Forge Agent' and 'Dependency metadata collection in RTCz'. A smaller chat window at the bottom right shows a message from Jean-Yves Rigolet: 'JV, did you see the workitem 4392?'. Three callout boxes highlight key features: 'Discuss work with members' points to the defect details, 'Collaborate in context' points to the chat window, and 'Various levels of work planning' points to the development plan overview.

Discuss work with members

Collaborate in context

Scopri come far la

Check the project status and health



Burndown charts

Team communication

Various project health dashboards

Project Activity

Change set additions, modifications and deletions

Date	Activity
5/29/09	11
5/29/09	11
5/29/09	4
6/2/09	7
6/2/09	3
6/2/09	18
6/2/09	3
6/8/09	3
6/8/09	1
6/15/09	8

Team e i tuoi progetti.

www.jazz.net - Transparent development visibility



Suppose we did our development out on the Internet?



We're building a new generation of products to help make software development more collaborative, productive and enjoyable.

Learn about Jazz | Explore projects | Download products

Jazz Team Blog

- Report from Rational Software Conference 2009**
By Seth Packham
Wed, 10 Jun 2009
Well, I'm back and fully recovered from an exhausting but fun week at the Rational...
[More >](#)
- Introducing Rational Focal Point for Project Management**
By Neil Leblanc
Mon, 08 Jun 2009
Thank you for your interest in Rational Focal Point for Project Management. This product...
[More >](#)

Upcoming Events

- Reducing Cost through Improved Software Delivery Workshop**
23 June 2009 in Edinburgh, UK
Join us in Edinburgh, UK to learn about the main areas of IBM Rational's application...
[More >](#)

Follow the activity at RSC

- Guide to Jazz at RSC 2009
[Jazz Twitter feed](#)

Announcements

- Rational Quality Manager and Rational Test Lab Manager 2.0 Beta 2 now available!**
Wed, 3 Jun 2009
The Rational Quality Manager team is pleased to make 2.0 Beta 2 available for download. Visit the Rational Quality Manager and Rational Test Lab Manager project page to learn more.
[Download now >](#)
- Rational Requirements Composer is now available!**
Fri, 29 May 2009

Featured Downloads

- [Rational Quality Manager and Rational Test Lab Manager 1.0.1.1](#)
- [Rational Requirements Composer 1.0.0.1](#)
- [Rational Team Concert 1.0.1.1](#)
- [All Downloads >](#)

In The News

- SCM tools are not configuration management tools
fscorner.blogspot.com
Monday, 8 Jun 2009

- A transparent software delivery laboratory where you can...
 - Communicate with the development team
 - Track the progress of builds and milestones
 - Get the latest product trials and betas
 - Join developers and product managers in discussion groups
 - Submit defect and enhancement requests

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

Questions

