



IBM Software Group

# Software Design und Entwicklung mit IBM Rational



Rational. software



# Agenda

- \* Software-Entwicklung auf der IBM Rational Software Development Plattform
- \* Software-Entwicklung mit IBM Rational Application Developer
- \* Kaffeepause
- \* Software-Entwicklung mit IBM Rational Application Developer
- \* Mittagspause
- \* Effektives Software-Design und -Entwicklung mit IBM Rational Software Architect, UML und Model Driven Architecture



## Agenda – Teil 2

- \* Teamübergreifende Zusammenarbeit beim Software-Design mit IBM Rational Design Manager und IBM Rational Team Concert
- \* Kaffeepause
- \* Vorgehensmodell und Best Practices der Software-Entwicklung mit IBM Rational Method Composer
- \* Visualisierung und Analyse der Unternehmensarchitektur  
(Enterprise Architecture) mit IBM Rational System Architect
- \* Entwicklungsprozesse mit IBM Measured Capability Improvement Framework nachhaltig und messbar verbessern
- \* Zusammenfassung, Frage- und Antwortrunde





IBM Software Group – Rational software

# Application Life Cycle Management with IBM Rational – An Overview

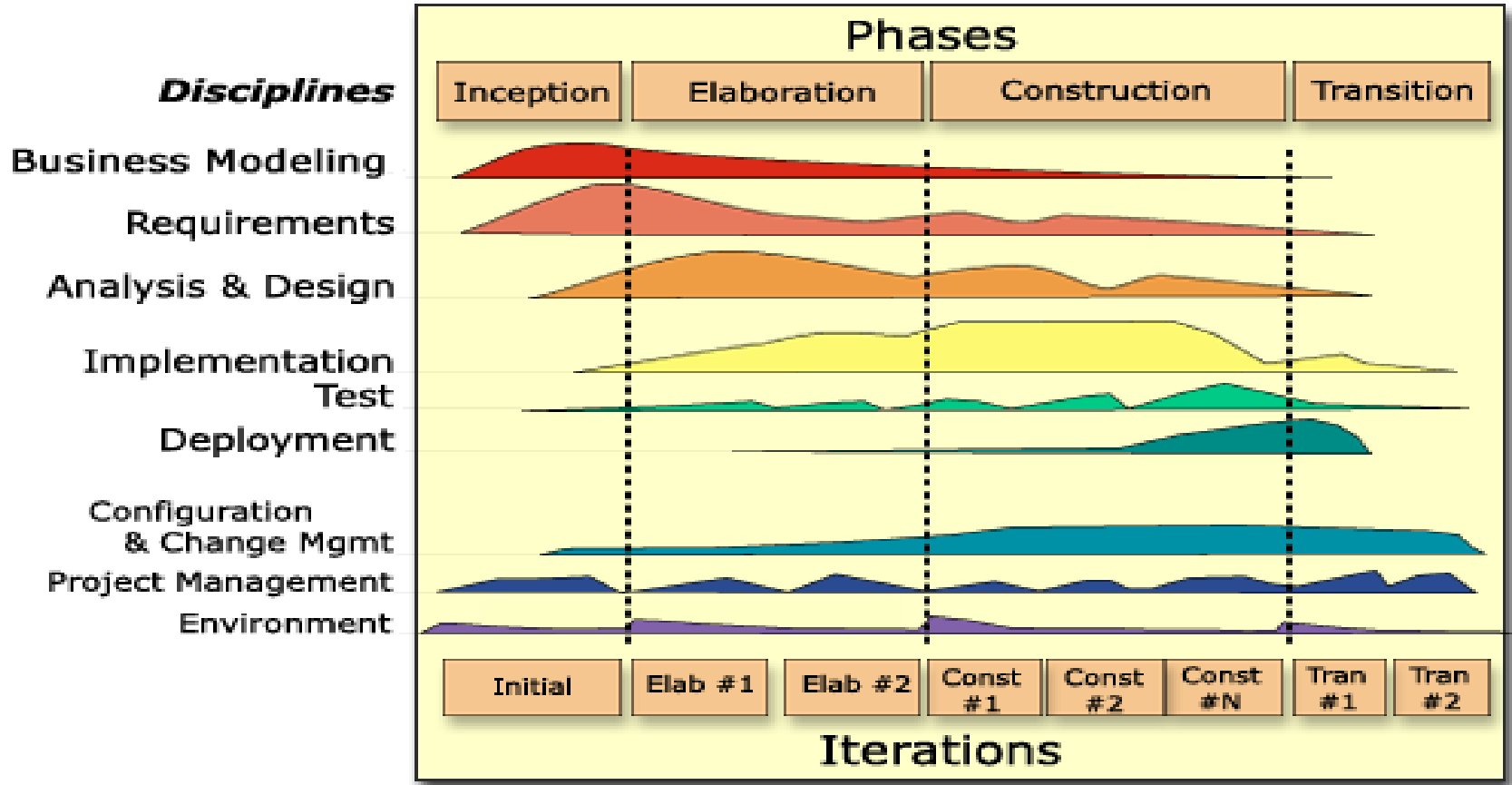
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Wolfgang.steindl@at.ibm.com

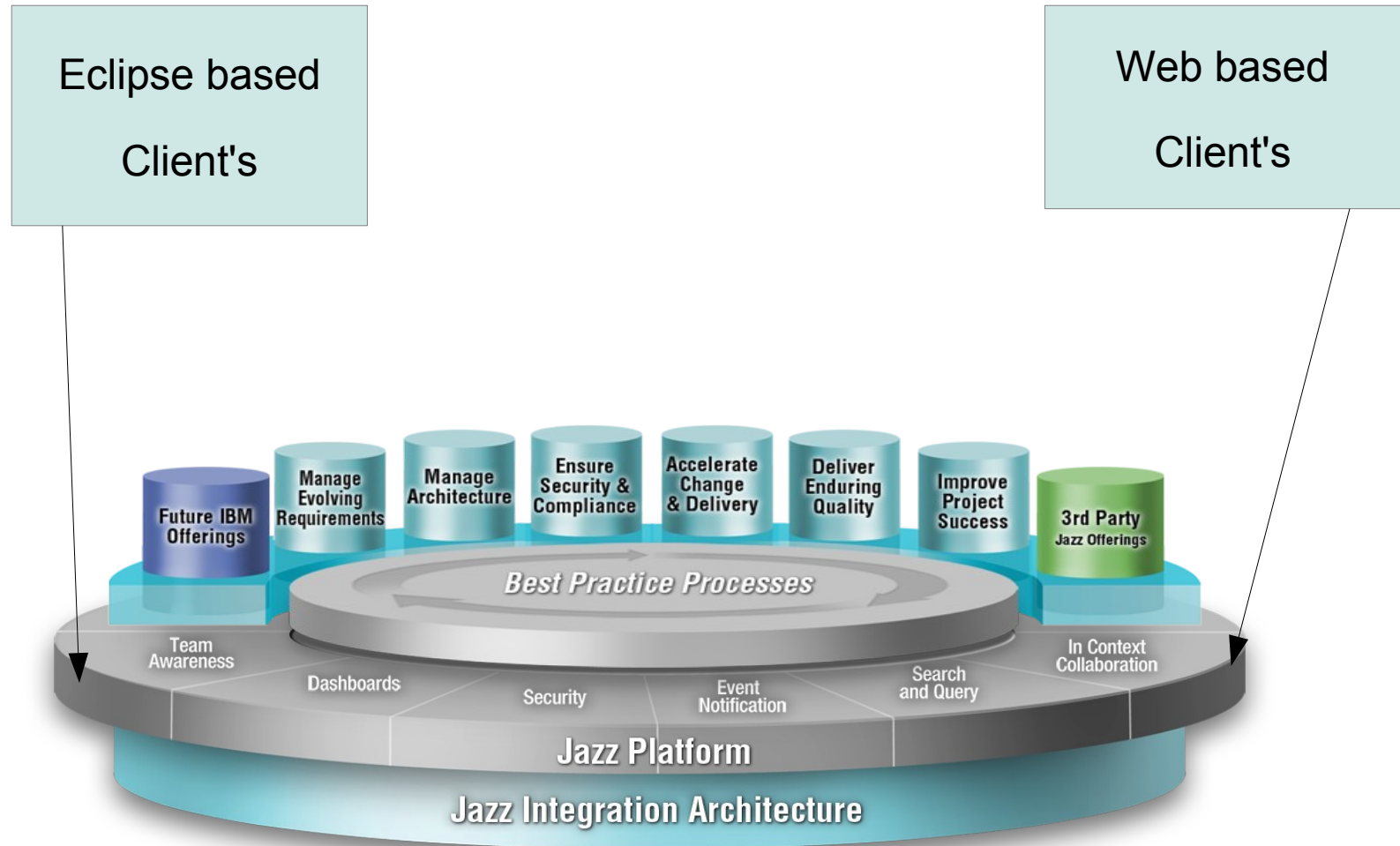
**Rational.** software



# Software-Process



# Collaborative Application Life Cycle Management



# The Jazz project

*People working together to deliver great software*

Jazz is a project and technology for *transforming how people work together* to deliver greater value and performance from their software investments.

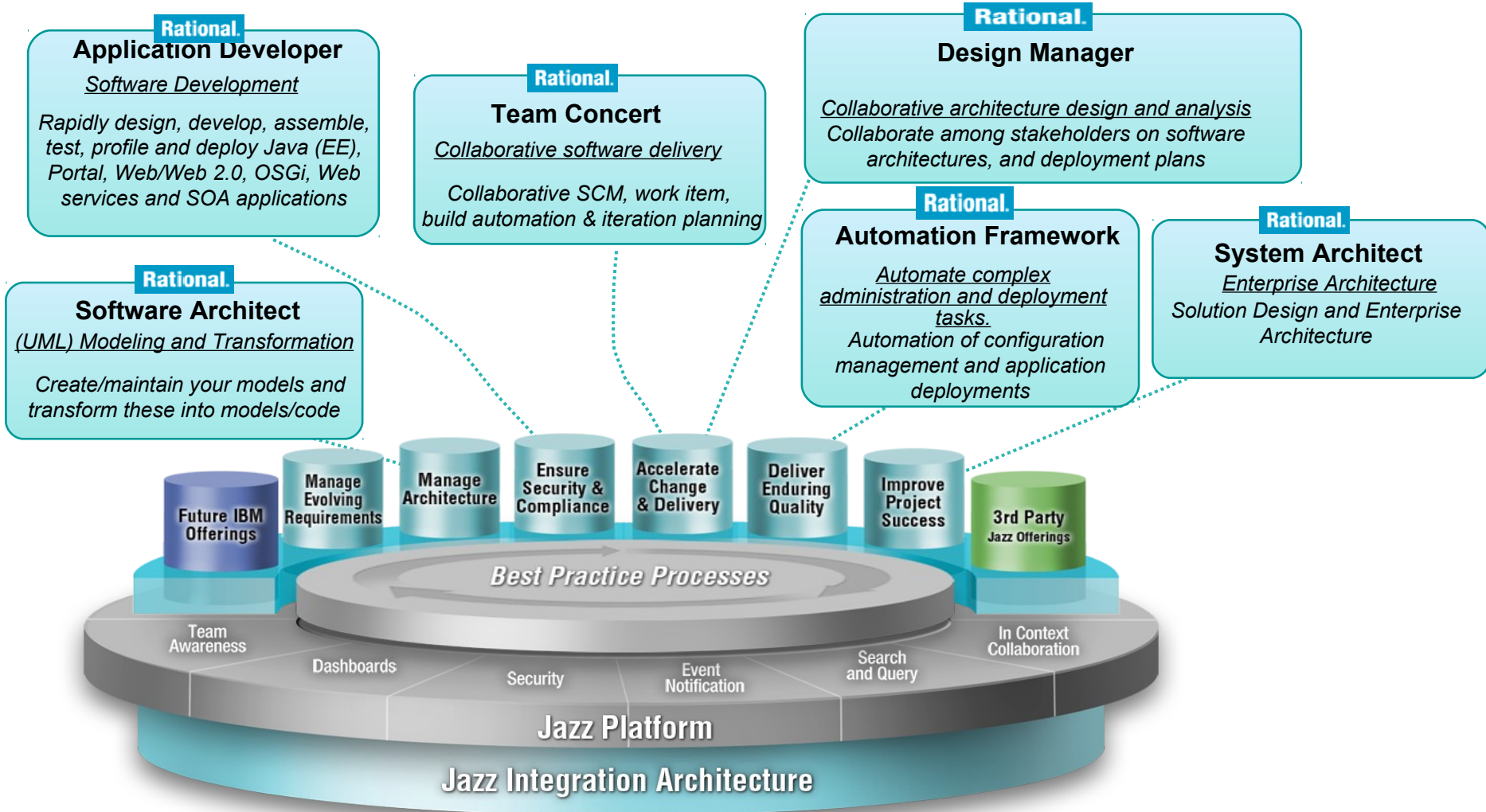


*jazz*

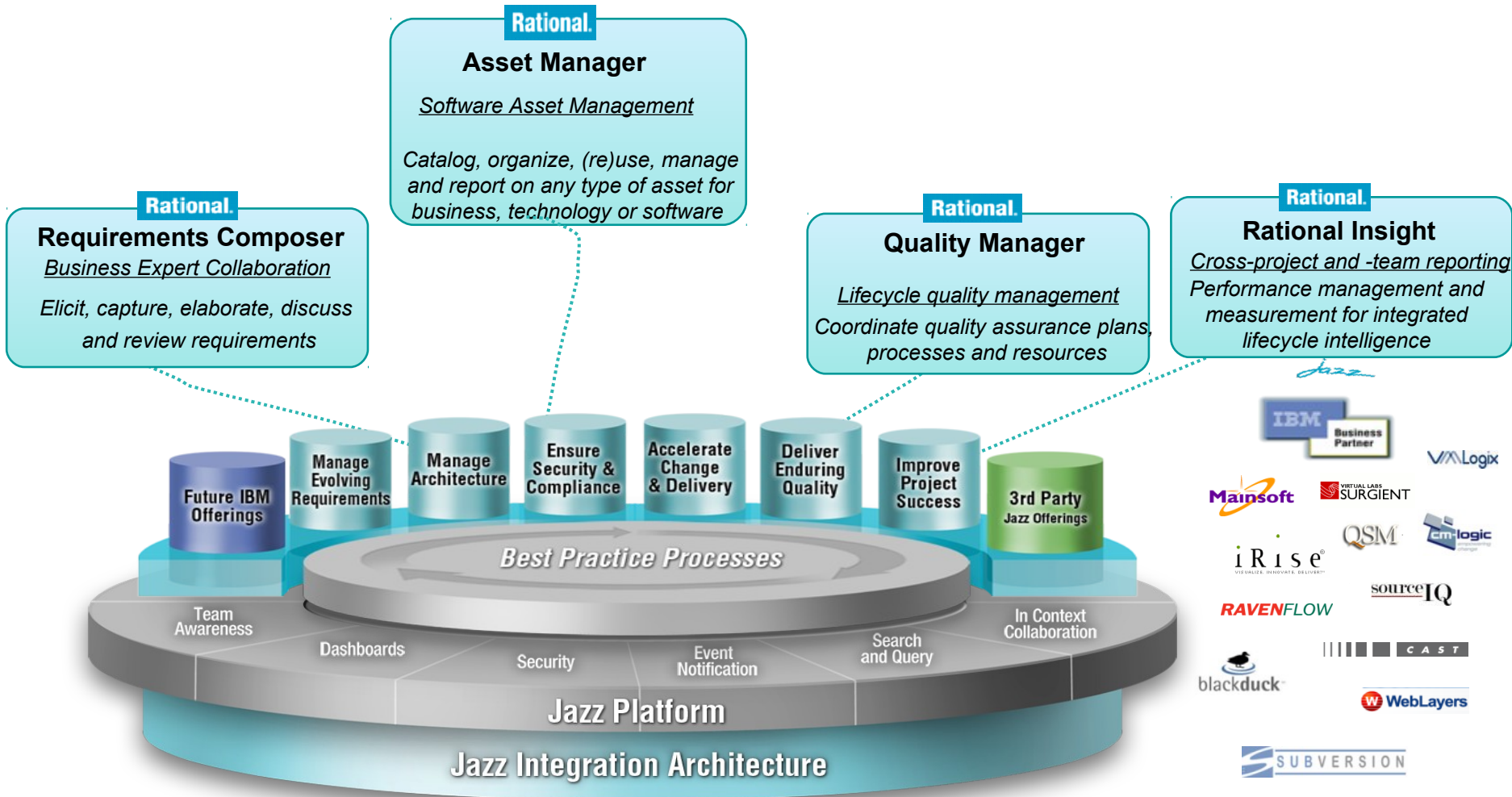
- A major investment by IBM to create a **scalable, extensible team collaboration foundation**.
- IBM's vision of the **future of software delivery**—globally distributed, fluid and dynamic.
- An **evolution of the Rational portfolio**, which will evolve to support Jazz technology over time.
- **A community at Jazz.net** – where you can see Jazz-based products being built.



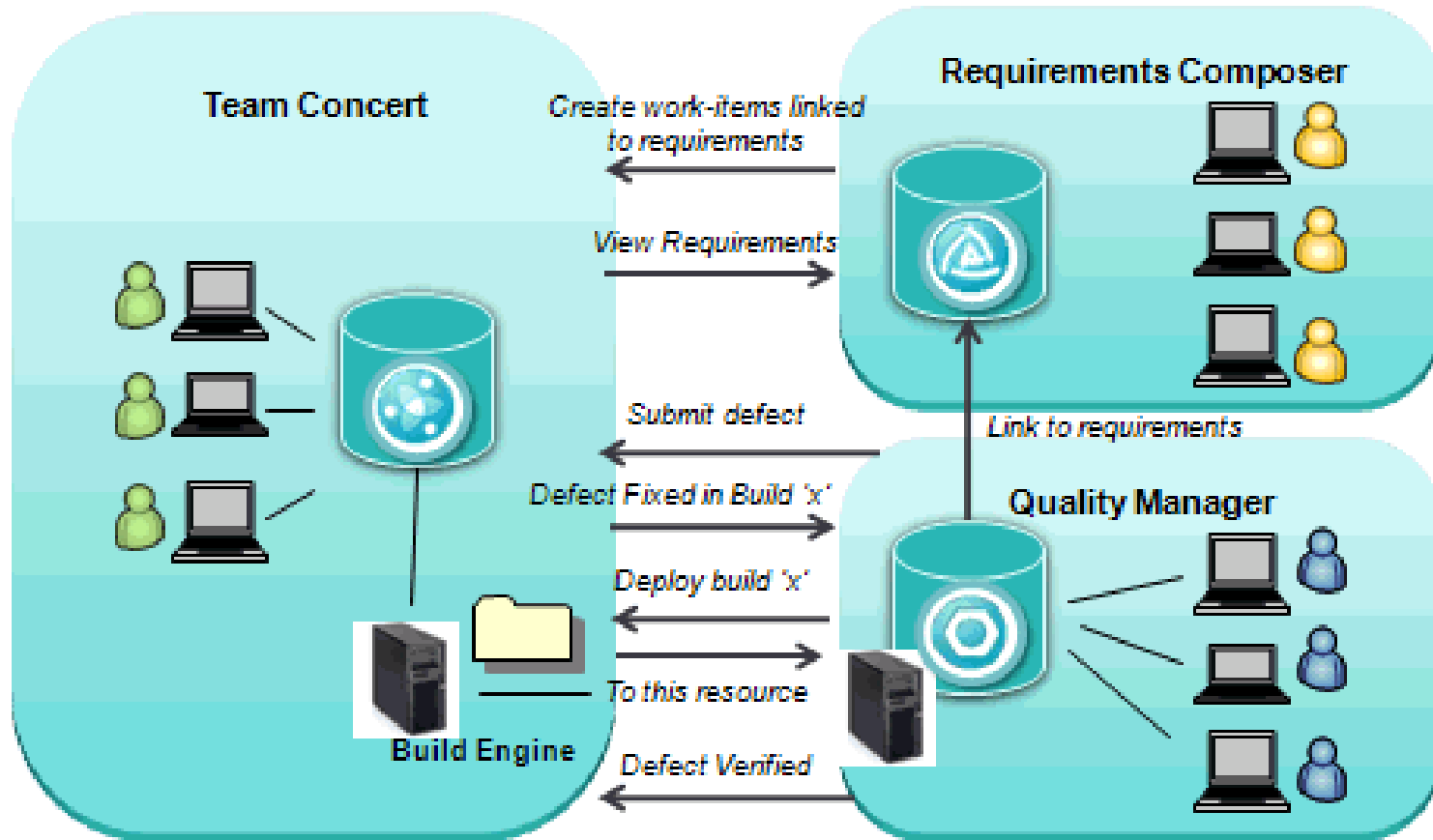
# Collaborative Application Lifecycle Management on Jazz



# Collaborative Application Lifecycle Management on Jazz

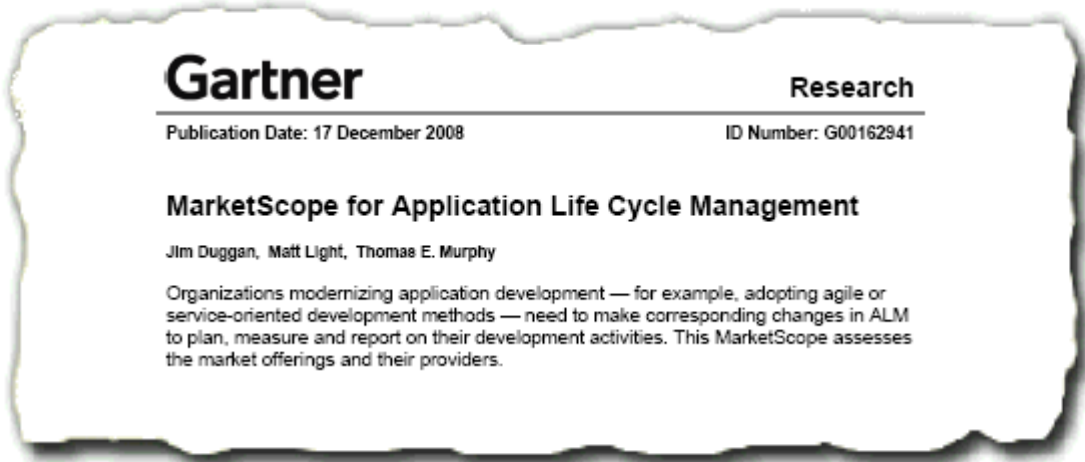


# Collaborative Application Lifecycle Management (CAL/M)



# Gartner Marketscope on Application Lifecycle Management

## IBM Rational Positioned as a Clear Leader in this Expanding Segment



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“IBM is one of the few vendors with credible offerings in almost all the requirements of ALM”

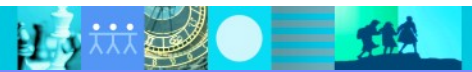
“IBM Rational is one of the first vendors to tell a story about integrating across the lifecycle”

“Jazz is a solid architectural foundation for further innovation”

We rate IBM as a **Strong Positive** because of its current market strengths and breadth of portfolio”

|                 | RATING          |         |           |          |                 |
|-----------------|-----------------|---------|-----------|----------|-----------------|
|                 | Strong Negative | Caution | Promising | Positive | Strong Positive |
| Aldon           |                 |         | X         |          |                 |
| Borland         |                 |         |           | X        |                 |
| CollabNet       |                 |         | X         |          |                 |
| IBM             |                 |         |           |          | X               |
| Kovair          |                 |         | X         |          |                 |
| Microsoft       |                 |         |           | X        |                 |
| MKS             |                 |         |           | X        |                 |
| Polarion        |                 |         | X         |          |                 |
| Rally Software  |                 |         |           | X        |                 |
| Serena Software |                 |         |           | X        |                 |
| TechExcel       |                 |         |           | X        |                 |
| VersionOne      |                 |         | X         |          |                 |

As of 11 December 2008



# Gartner MarketScope for Application Life Cycle Management

*IBM Rational earns “Strong Positive” – the highest possible rating – November 2010*

## Gartner.

Efficient coordination and automation of the delivery process **requires new, collaborative approaches** to the planning, measurement, execution, control and reporting of activities.

These **new approaches** are what differentiate **current application life cycle management (ALM) tools**, and what make ALM processes vital to leading-edge development activities.

ALM is what **enables sustainable agile practices**. ALM creates a management framework providing consistent, auditable records of the decisions and activities of agile teams.

## IBM earns

**“Strong Positive” – the highest possible rating**

|                    | RATING          |         |           |          |                 |
|--------------------|-----------------|---------|-----------|----------|-----------------|
|                    | Strong Negative | Caution | Promising | Positive | Strong Positive |
| AccuRev            |                 |         | X         |          |                 |
| Aldon              |                 |         | X         |          |                 |
| Atlassian          |                 |         |           | X        |                 |
| CollabNet          |                 |         |           | X        |                 |
| Digite             |                 |         | X         |          |                 |
| HP                 |                 |         |           | X        |                 |
| IBM                |                 |         |           |          | X               |
| Kovair             |                 |         | X         |          |                 |
| Micro Focus        |                 |         | X         |          |                 |
| Microsoft          |                 |         |           | X        |                 |
| MKS                |                 |         |           | X        |                 |
| Parasoft           |                 |         | X         |          |                 |
| Polarian Software  |                 |         | X         |          |                 |
| Rally Software     |                 |         |           | X        |                 |
| Seapine Software   |                 |         | X         |          |                 |
| Serena Software    |                 |         |           | X        |                 |
| SmartBear Software |                 |         | X         |          |                 |
| TechExcel          |                 |         | X         |          |                 |
| ThoughtWorks       |                 |         | X         |          |                 |
| VersionOne         |                 |         |           | X        |                 |

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# Software-Process – Business Modeling

**Rational.**

## Software Architect

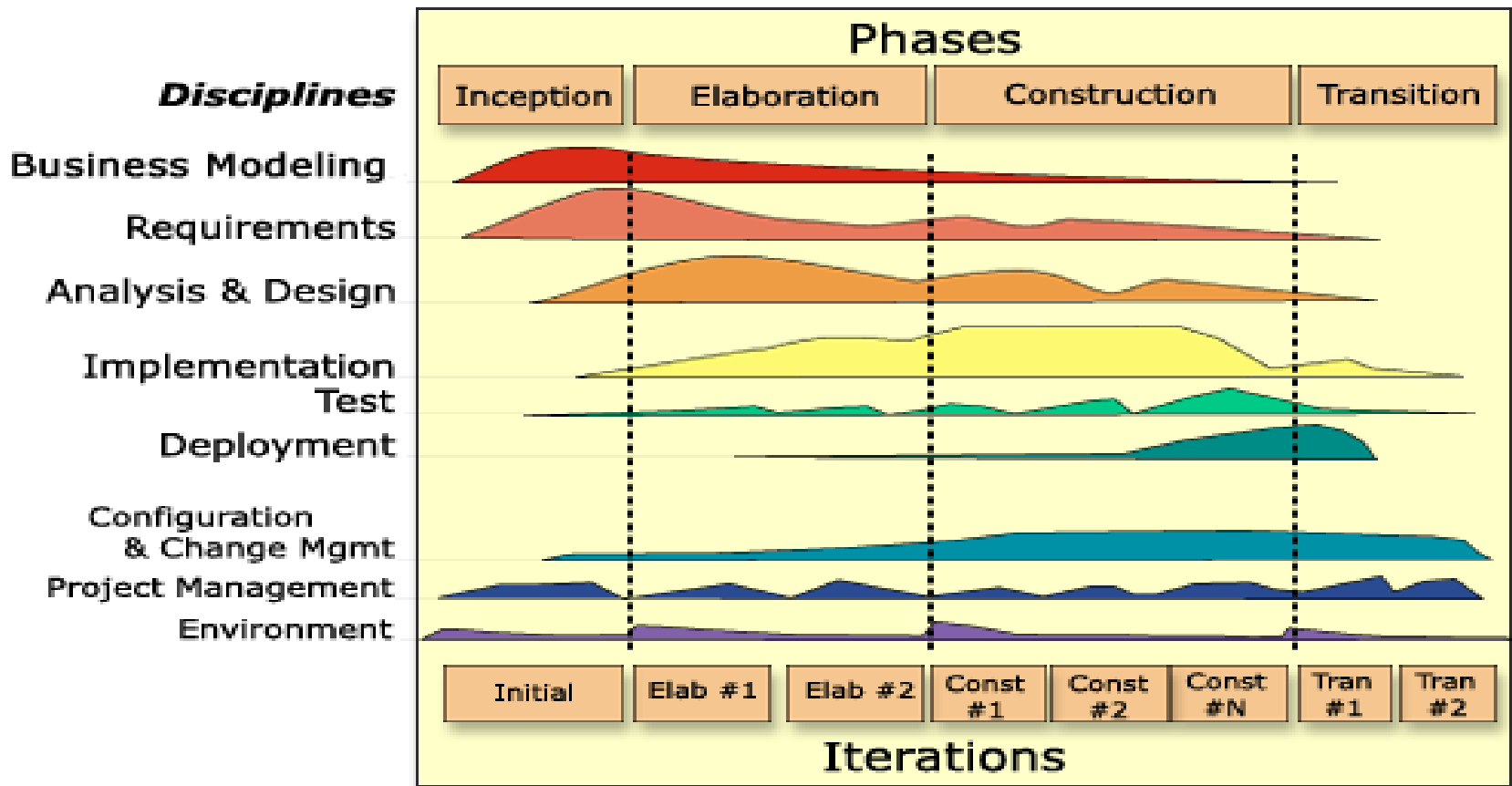
*(UML) Modeling and Transformation*

Create/maintain your models and transform these into models/code

**Rational.**

## System Architect

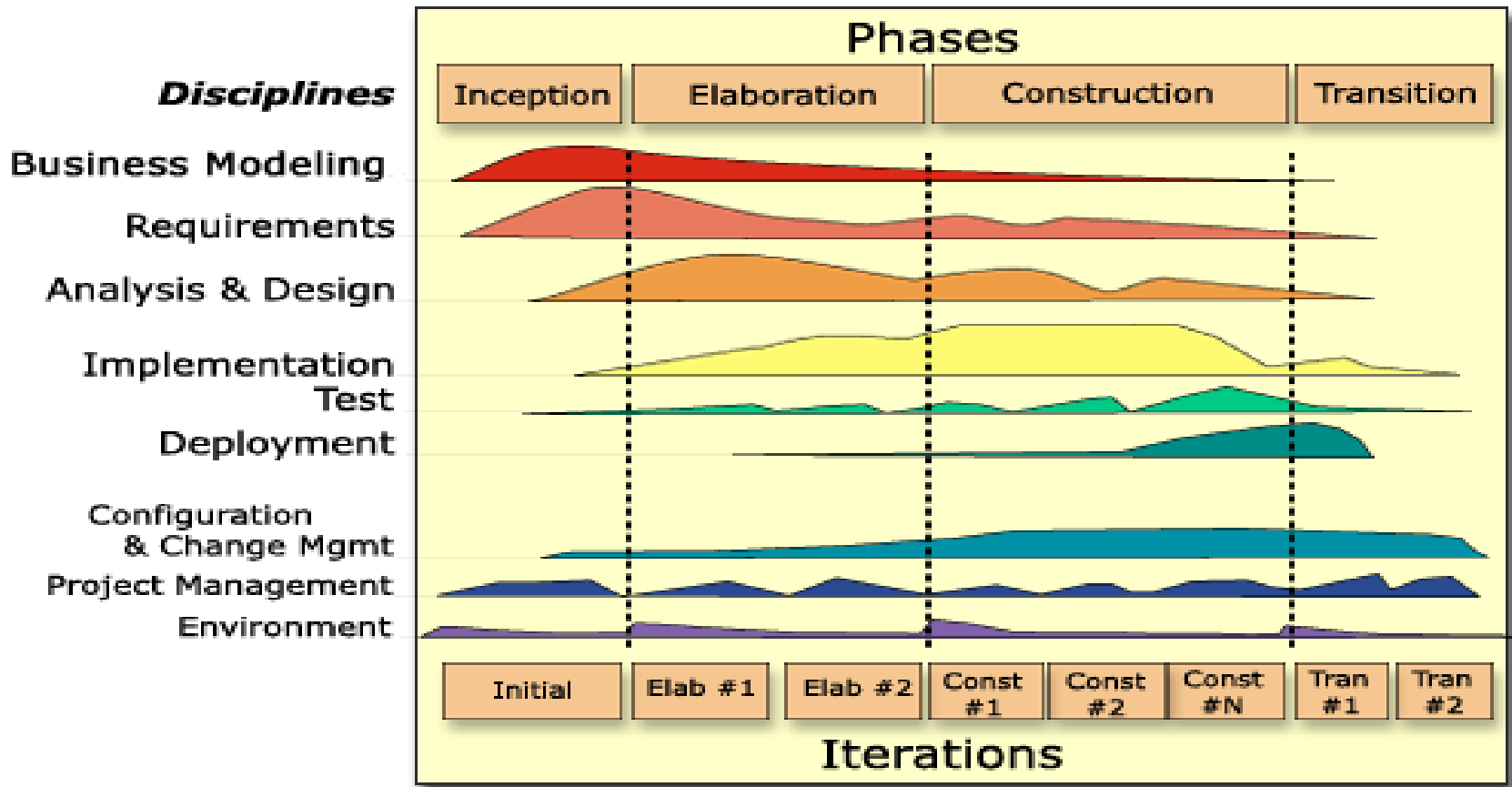
*Enterprise Architecture  
Solution Design and Enterprise  
Architecture*



# Software-Process – Requirements

**Rational.**

**Requirements Composer**  
*Business Expert Collaboration*  
 Elicit, capture, elaborate, discuss  
 and review requirements



# Software-Process – Analysis & Design

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## Software Architect

*(UML) Modeling and Transformation*

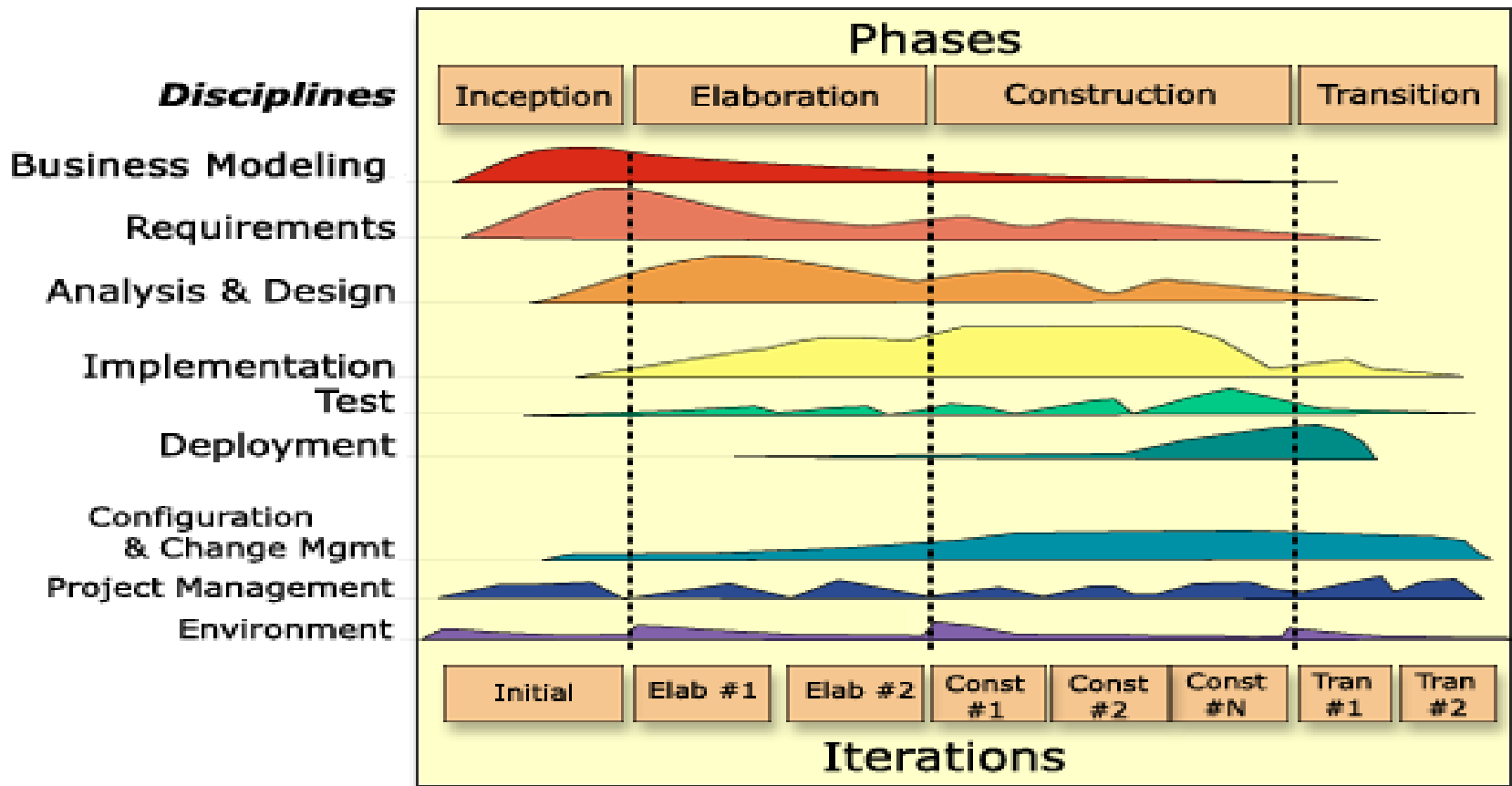
Create/maintain your models and transform these into models/code

**Rational.**

## Design Manager

*Collaborative architecture design and analysis*

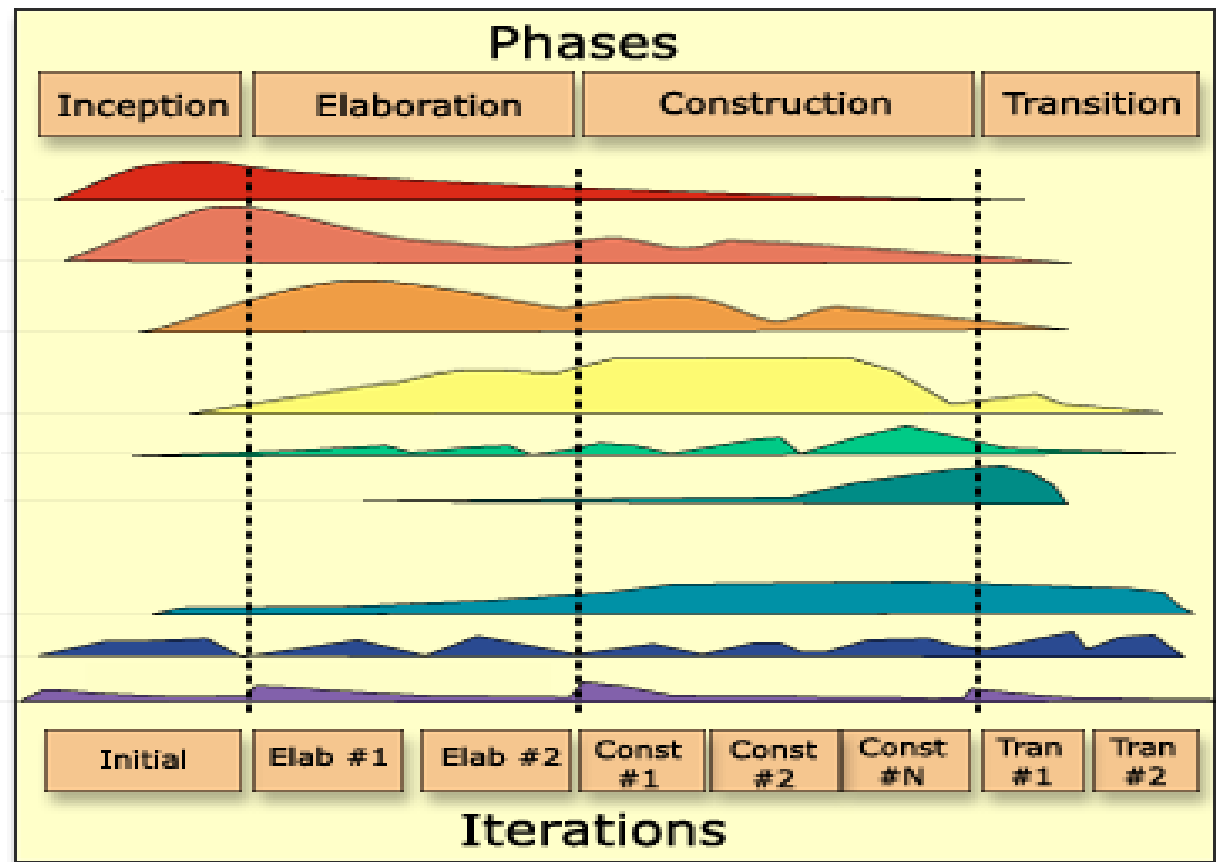
Collaborate among stakeholders on software architectures, and deployment plans



# Software-Process – Implementation

**Rational**  
**Application Developer**  
*Software Development*  
 Rapidly design, develop, assemble, test, profile and deploy Java (EE), Portal, Web/Web 2.0, OSGi, Web services and SOA applications

- Disciplines**
- Business Modeling
  - Requirements
  - Analysis & Design
  - Implementation
  - Test
  - Deployment
  - Configuration & Change Mgmt
  - Project Management
  - Environment

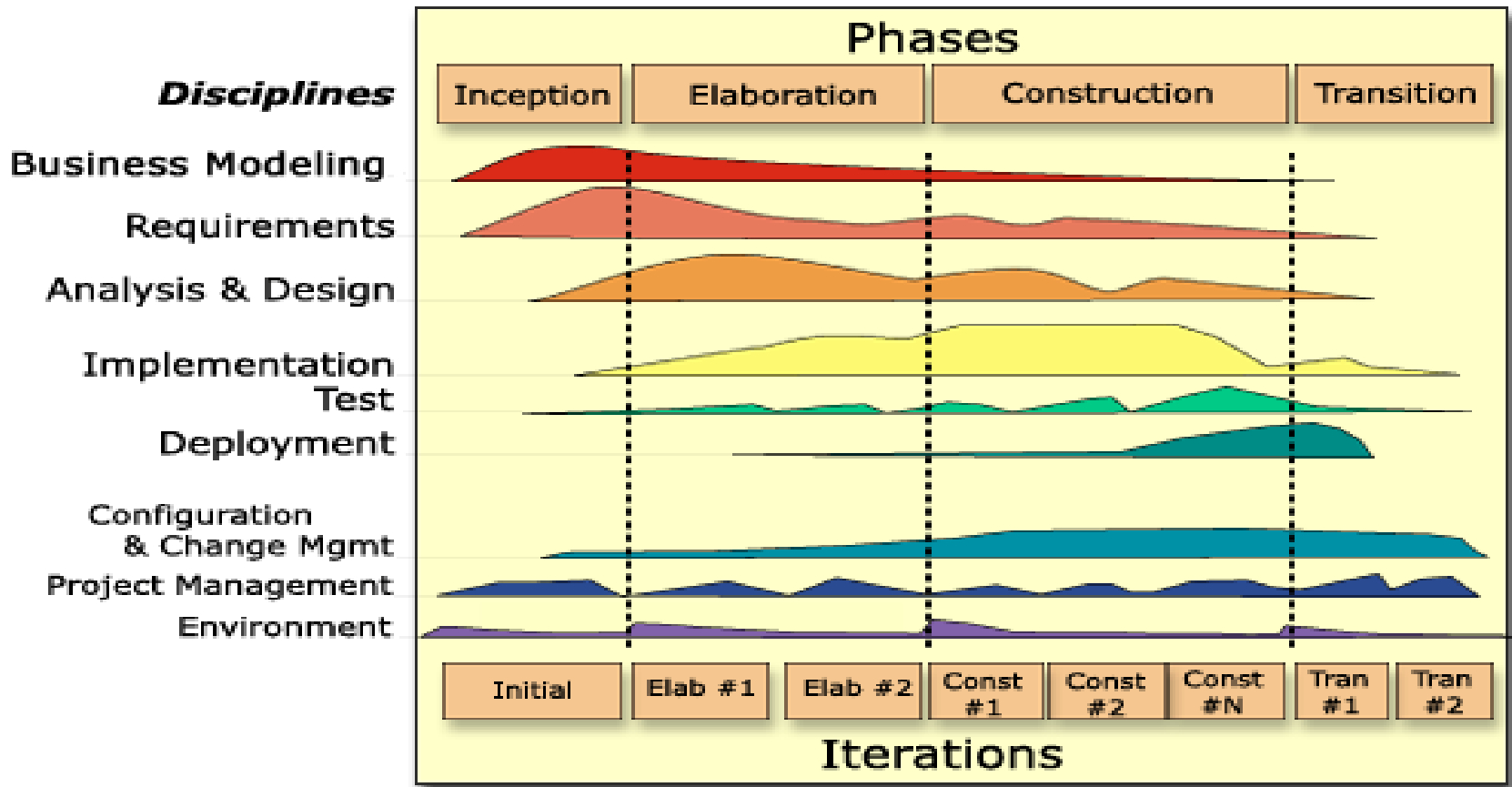


# Software-Process – Test

**Rational.**

## Quality Manager

*Lifecycle quality management*  
 Coordinate quality assurance plans,  
 processes and resources



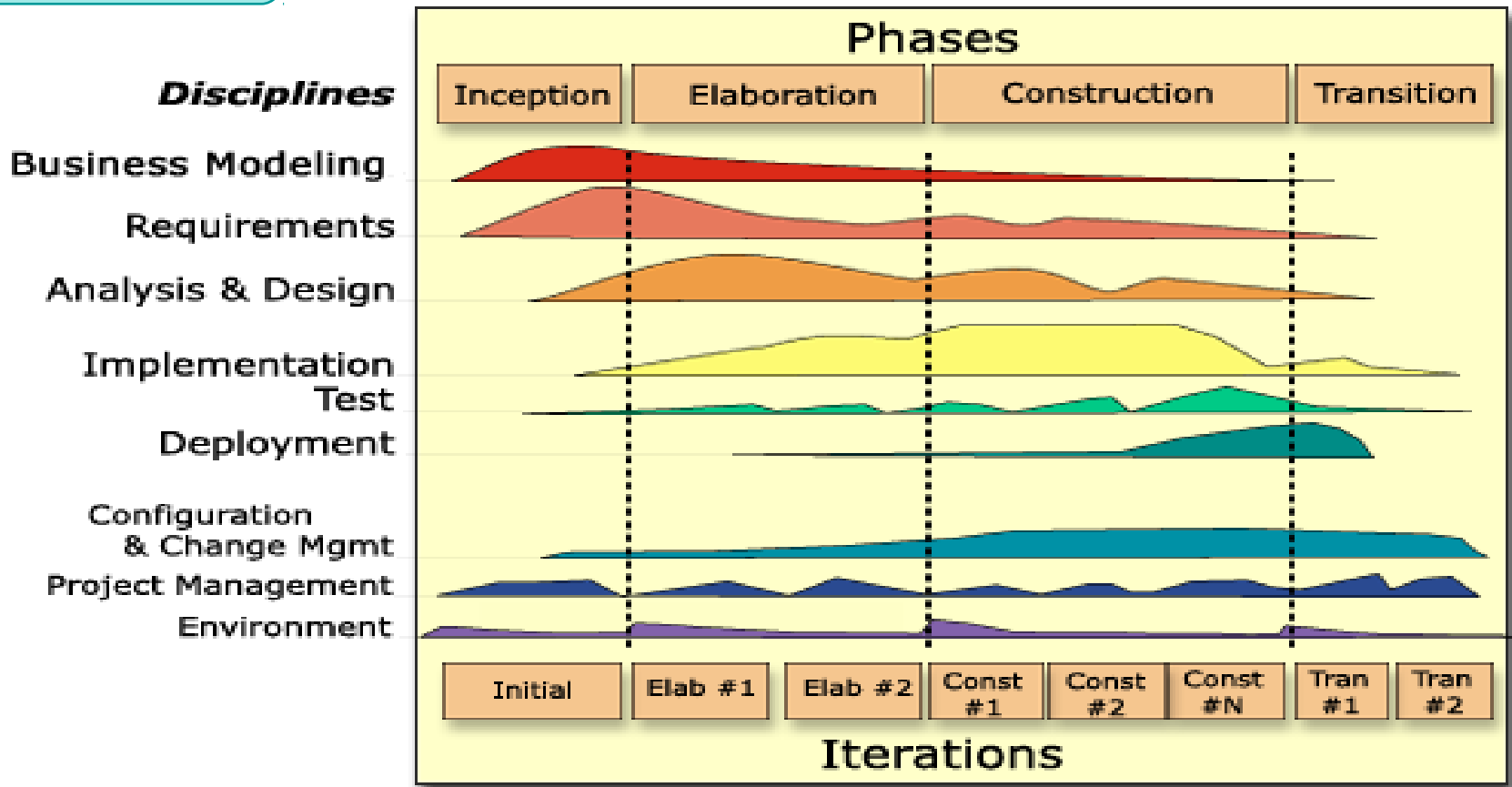
# Software-Process – Configuration & Change Mgmt

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## Team Concert

*Collaborative software delivery*

*Collaborative SCM, work item, build automation & iteration planning*



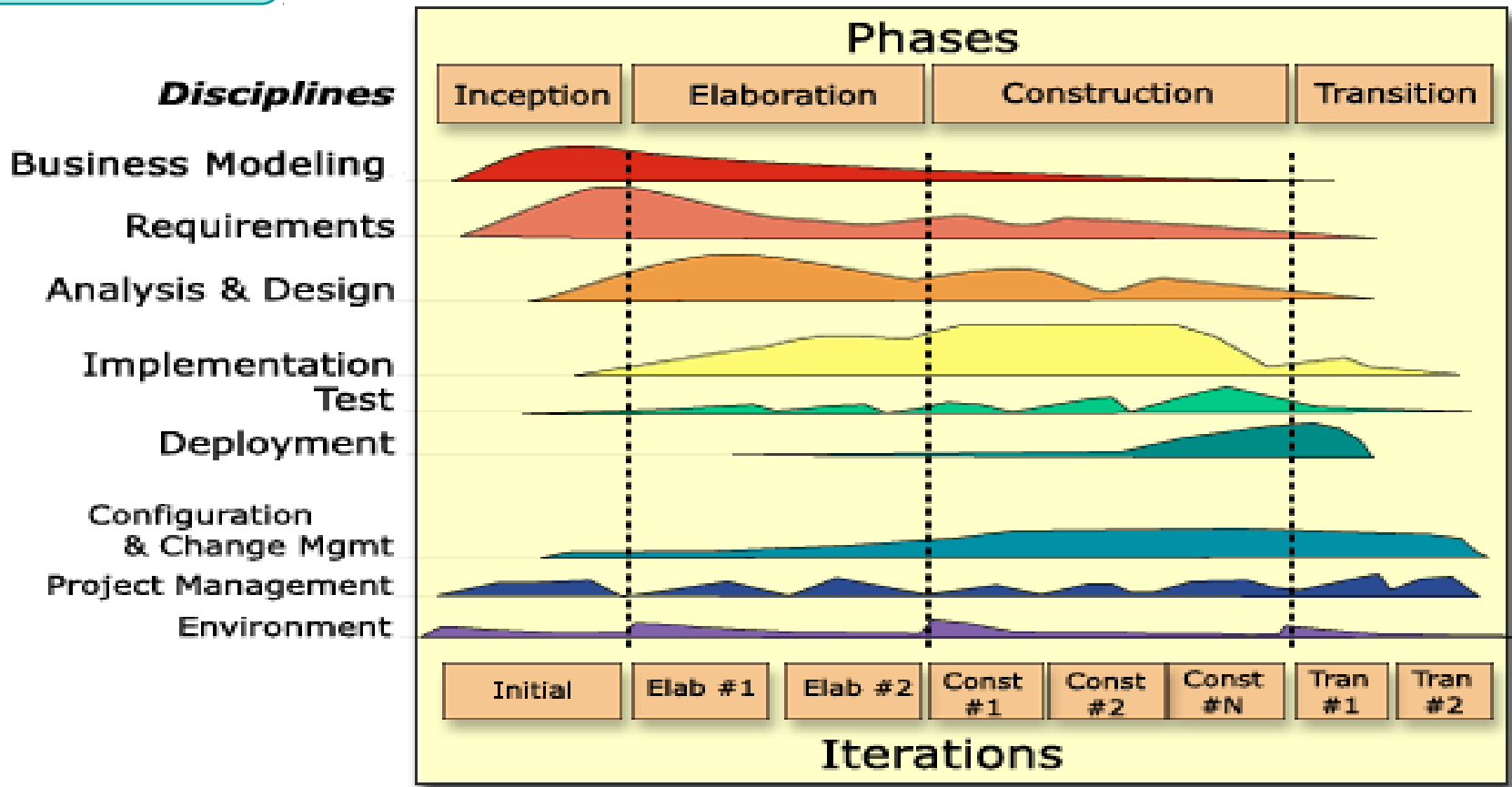
# Software-Process – Project Management

**Rational**

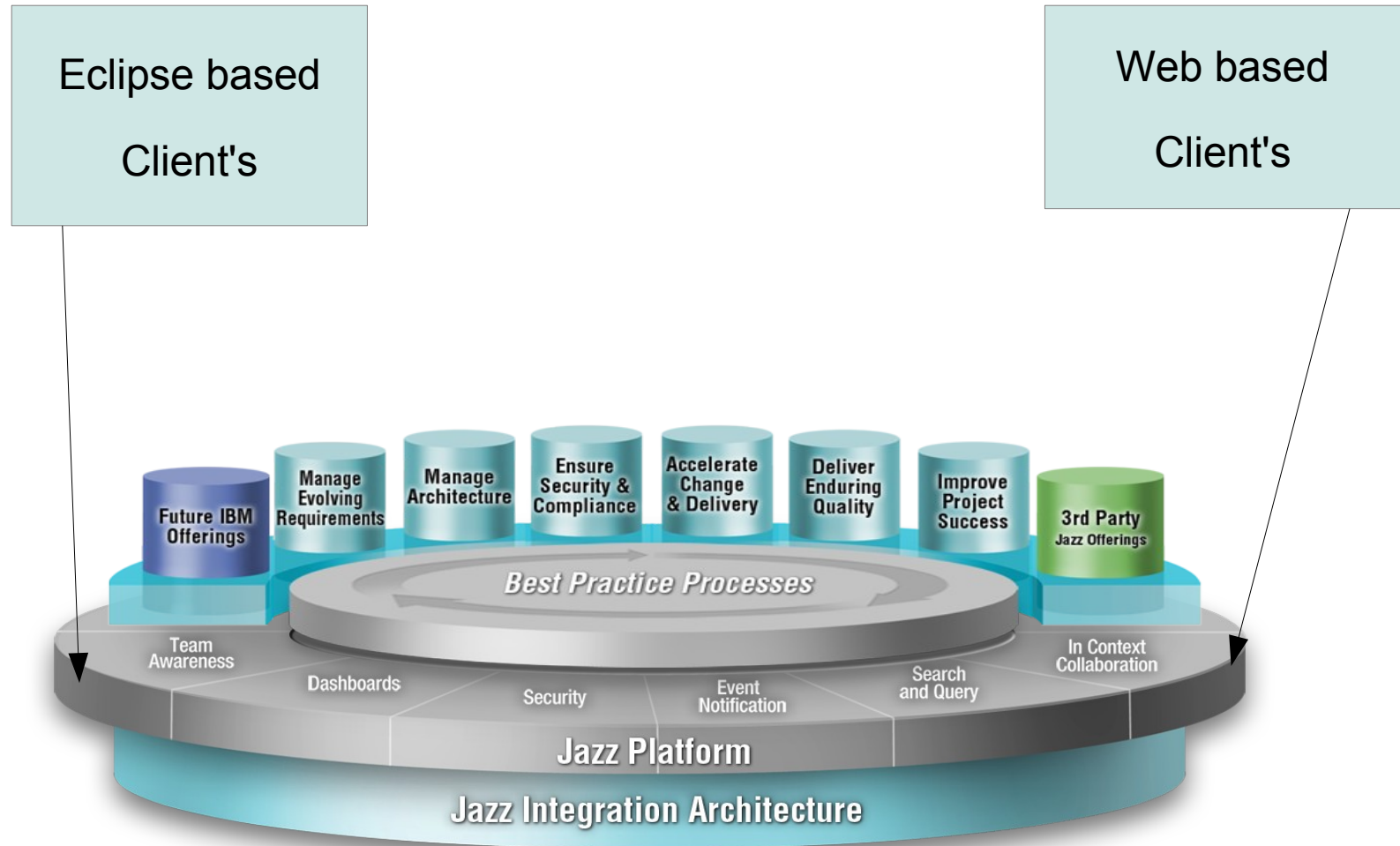
## Team Concert

*Collaborative software delivery*

*Collaborative SCM, work item, build automation & iteration planning*



# Collaborative Application Life Cycle Management



## Additional resources

- Find out more about IBM Rational  
<http://www.ibm.com/rational/>
- Download the trial and participate in the open commercial development project  
<http://jazz.net>

IBM Rational Products A - Z

<http://www-142.ibm.com/software/products/us/en/atoz/rational>





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