

# Software Development Process Agile and RTC Adoption@Rome

Lucio Bortolotti

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# Agenda

#### Rome Tivoli SW Lab

- > Software Development  $\rightarrow$  Business Process
- Software Development Life Cycle
- Software Development Life Cycle Models
- Supporting Tools
- Project Governance





#### Milestones of the Rome Development Lab





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Rome Tivoli SW Lab

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# **Tivoli Business Model - Overview**



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#### Software Development Life Cycle

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# A Simplified Software Development Life Cycle

The production of software always follows the life cycle sequence shown above.

There are many variations

- Differences in terminology
- Coarser- or finer-grained steps
- · Overlapping or merged steps

But in general these steps are always followed during the production of software

Successive releases or versions of the software are handled by an ongoing loop



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#### Software Development Life Cycle Models

- Supporting Tools
- Project Governance

Software and Systems Engineering | Rational SDLC Models → Waterfall Requirementst → Analysis → Design → Implementation → Test → Production





# SDLC Models $\rightarrow$ Iterative to Agile



Customer interaction / feedback



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**Jazz Collaborative Lifecycle Mgmt** 



- The analysis phase:
  - 1. Defines a system structure that will support the system use cases
  - 2. Is independent of implementation details.



#### Rational Software Architect









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### ollaboration @ RomeLab – Before Jazz



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# Collaboration @ RomeLab – After Jazz





- Development-centric folks tend to come from a mindset where change is the thing that they are paid to accomplish. The business depends on them to respond to changing needs. Because of this relationship, they are often incentivized to create as much change as possible.
- Operations folks tend to come from a mindset where change is the enemy. The business depends on them to keep the lights on and deliver the services that make the business money today. Operations is motivated to resist change as it undermines stability and reliability.







DevOps is a software development method that stresses communication, collaboration and integration between software developers and information technology (IT) professionals.



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#### Project Governance

#### **RTC Project Dashboard Customization**

We leverage RTC in order to have:

- All project data directly available via web
- All reports automatically updated (no manual intervention required)

There are 2 main areas we track through RTC:

- Activity Progress (both at Sprint Level and at a general release Level)
- Quality: We mainly track defects Incoming and Backlogs.

We normally use the Viewlets and Standard reports provided by RTC but we have also developed some "Ad-Hoc" reports.

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