The Rational Unified Process

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Objectives

- To present why and when to use RUP
- To present RUP activities
- To present RUP roles
- To present RUP products
- To apply RUP to develop a system



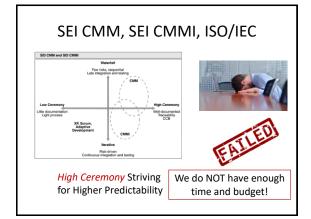
Books And Reading

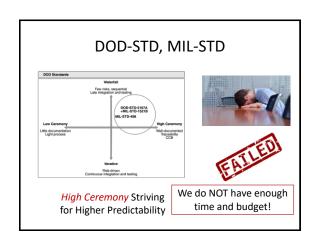
- Per Kroll and Philippe Kruchten. The Rational Unified Process Made Easy: A Practitioner's Guide to the RUP. 2003.
- 2. Philippe Kruchten, The Rational Unified Process: An Introduction. 2003.
- Craig Larman, Agile and Iterative Development: A Manager's Guide. 2003.



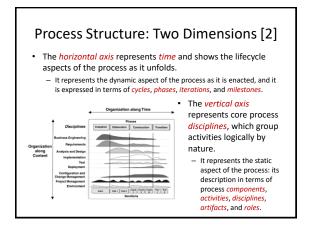
Agile Development [1] Agile Processes Waterial For risks, expounding Law temperature and tenting Low Commonly Adjustive Procession Adjustive Operature Risk-down Risks down Ris

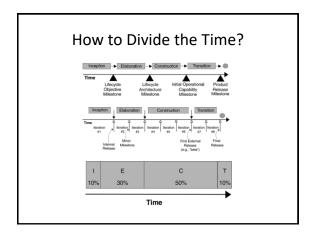
Low-Ceremony, Iterative Approaches Our system is too complex. Our developers are not competent.

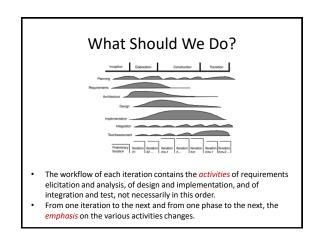


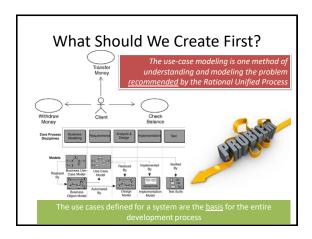


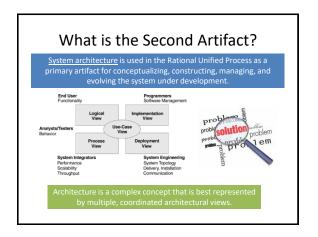
The Rational Unified Process Authority Control Contro

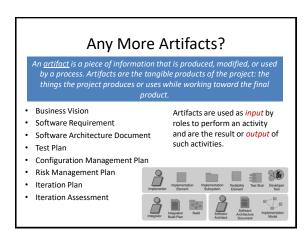


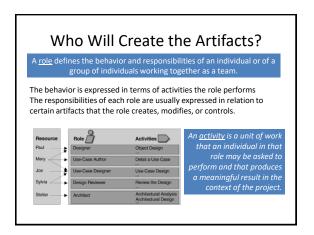


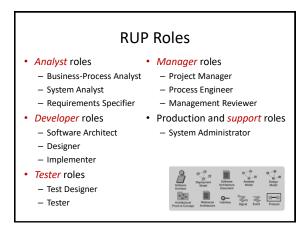


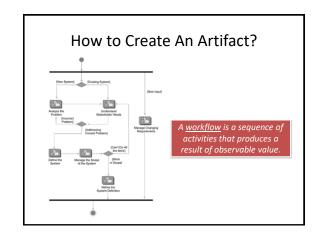


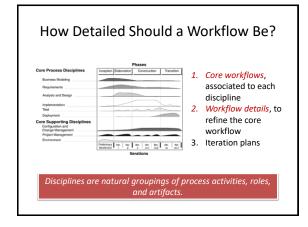


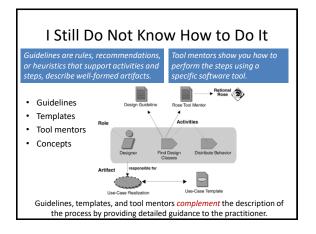


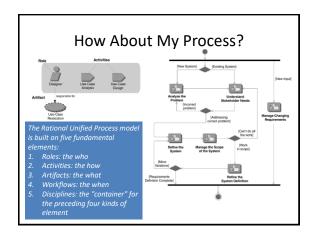






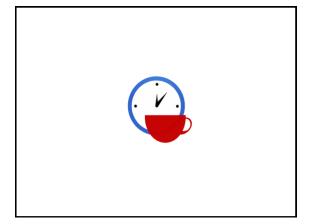






What Is the RUP?

- The Rational Unified Process is a *software engineering* process.
 - It provides a disciplined approach to assigning tasks and responsibilities within a development organization.
- The Rational Unified Process is a process product.
 - It is developed and maintained by Rational Software and integrated with its suite of software development tools.
- The Rational Unified Process is also a process framework
 - that can be adapted and extended to suit the needs of an adopting organization.



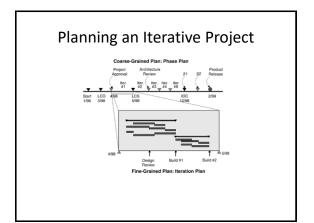


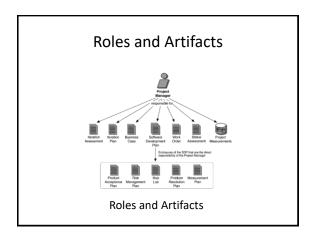


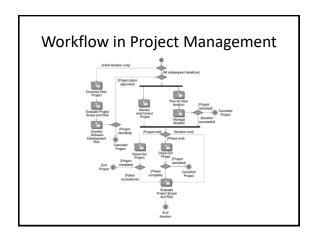
Purpose

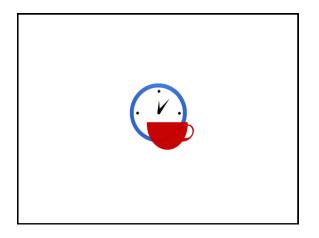
- To provide a <u>framework</u> for managing software-intensive projects
- To provide practical guidelines for planning, staffing, executing, and monitoring projects
- To provide a framework for managing risk

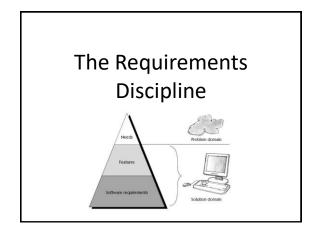




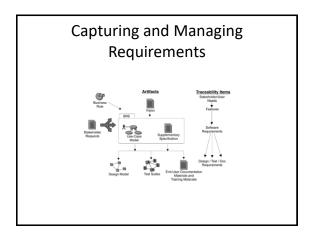


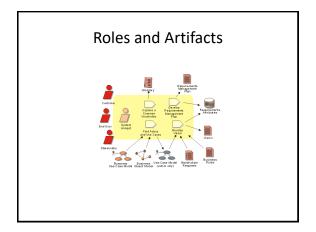


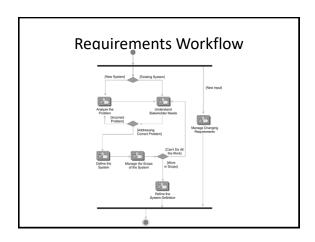


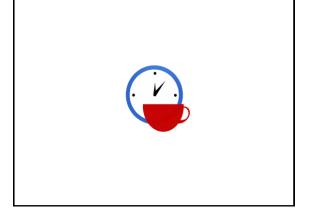


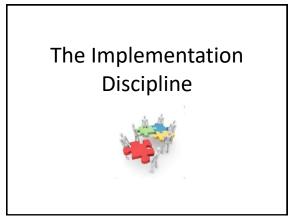
Purpose To establish and maintain agreement with the customers and other stakeholders on what the system should do—and why! To provide system developers with a better understanding of the system requirements To define the boundaries of (delimit) the system To provide a basis for planning the technical contents of iterations To provide a basis for estimating cost and time to develop the system To define a user interface for the system, focusing on the needs and goals of the users



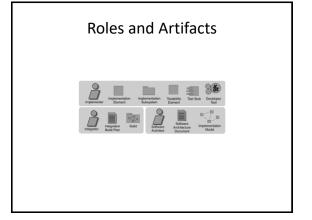


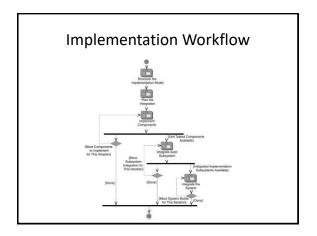


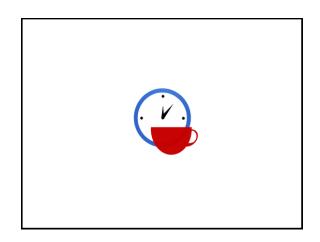


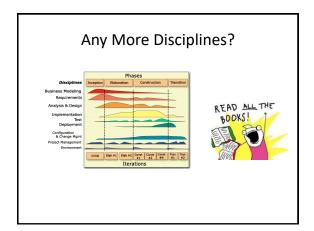


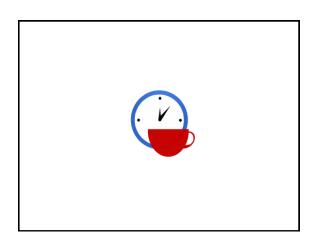
Purpose To define the *organization* of the code in terms of implementation subsystems organized in layers To *implement* classes and objects in terms of components (source files, binaries, executables, and others) To *test* the developed components as units To *integrate* into an executable system the results produced by individual implementers or teams

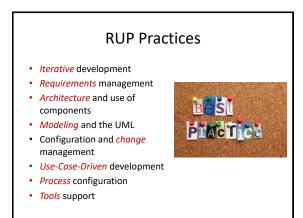


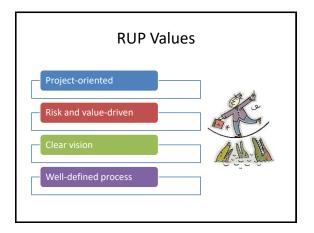












Pitfalls

 There's a lot of really good stuff here. We need to do it ALL.



