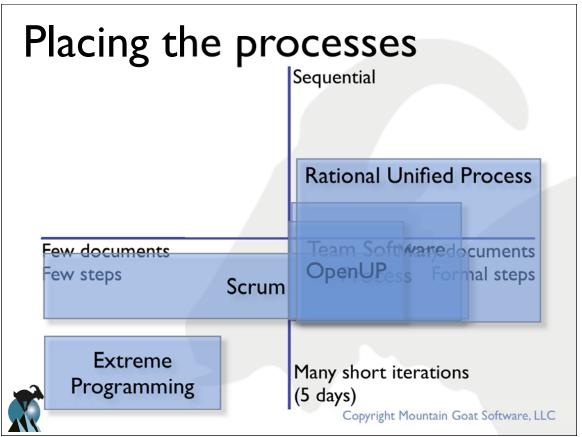
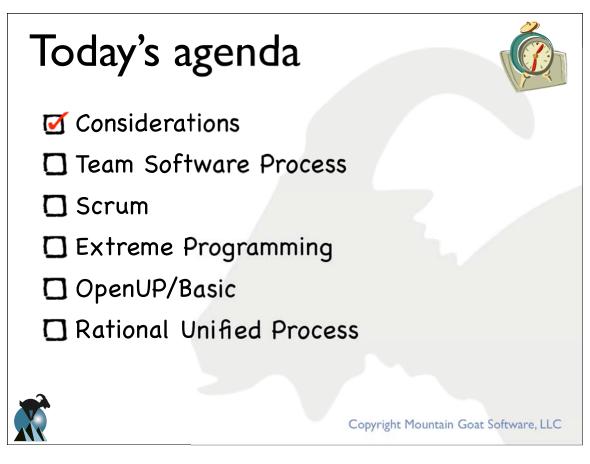


Cycles	
	Sequential
<ul> <li>Number and length of iterations</li> </ul>	
Few documents Few steps	Many documents Formal steps
	Many short iterations (5 days) Copyright Mountain Goat Software, LLC

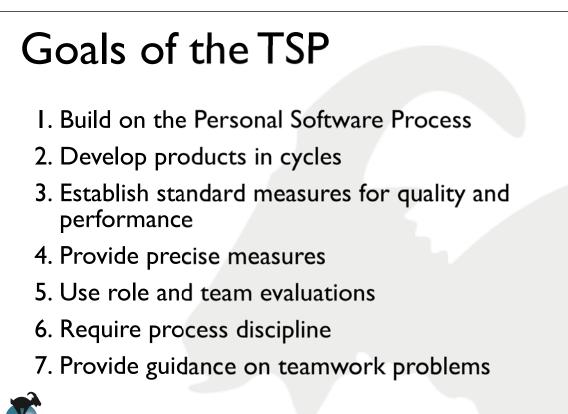




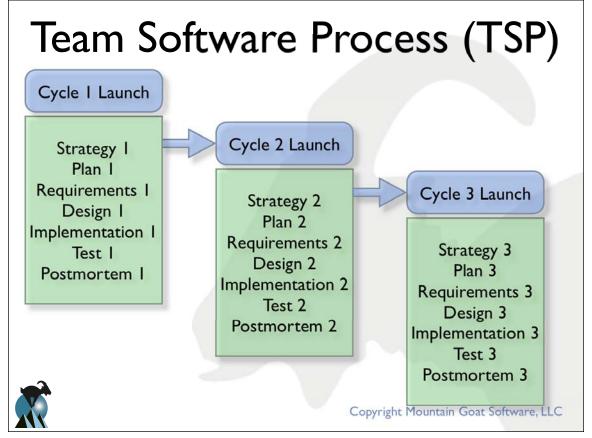
## Team Software Process (TSP)

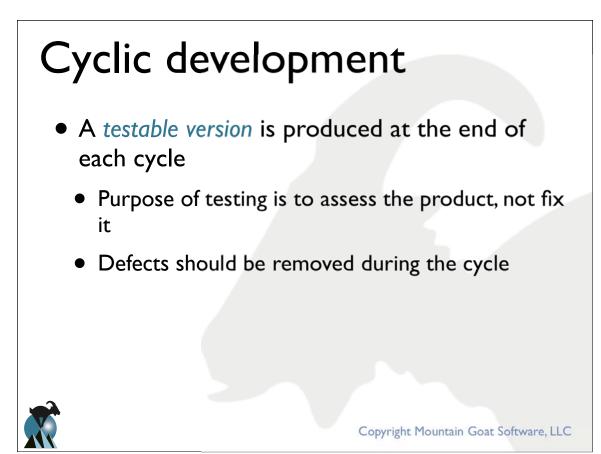
- Created by Watts Humphrey
  - Of Software Engineering Institute and Capability Maturity Model (CMM)
  - Builds on his Personal Software Process
- High discipline, highly defined
- A "cyclic development strategy"
  - Another way of saying "iterative and incremental"





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#### Designed to solve team problems

"The success or failure of a project is seldom due to technical issues. You almost never find yourself asking 'has the state of the art advanced far enough so that this program can be written?' Of course it has. If the project goes down the tubes, it will be non-technical, human interaction problems that do it in. The team will fail to bond, or the developers will fail to gain rapport with the users, or people will fight interminably over meaningless methodological issues."



Tom DeMarco

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## Goals and goals and...

#### Team goals

- Produce a quality product
- Run a productive and well-managed project
- Finish on time

#### Team member goals

- •Be a cooperative and effective team member
- Do consistently disciplined personal work
- Plan and track all your personal work
- Produce quality products





#### Scripts and forms

- TSP uses scripts to define the steps of building a software system
  - 21 activity scripts
  - 10 role scripts
- Often quite detailed
- Scripts prescribe completing 21 supporting forms

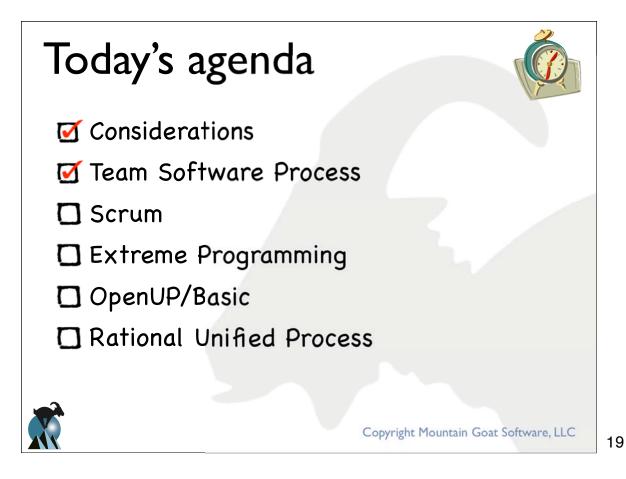


The	inspe	ction script	
Purpose Entry criteria		To help engineers produce quality products	
		A completed and reviewed product with available materials	
Step	Activities	Description	
I	Plan the inspection	<ul> <li>The developer</li> <li>Arranges with the quality/process manager or some other qualified team member to be the moderator</li> <li>Handles the mechanics of setting up and running</li> </ul>	
2 Hold the inspection		The moderator describes the inspection process The producer familiar the inspection team with the product.	
Exit criteria		INS and LOGD forms completed and filed in the	
		Copyright Mountain Goat Software, LLC	

# Choose TSP if...

- ...you have the discipline to follow all of its specific steps
- ...are already using the complementary Personal Software Process (PSP)
- ...team members need this level of guidance
- ...you do not have emergent requirements

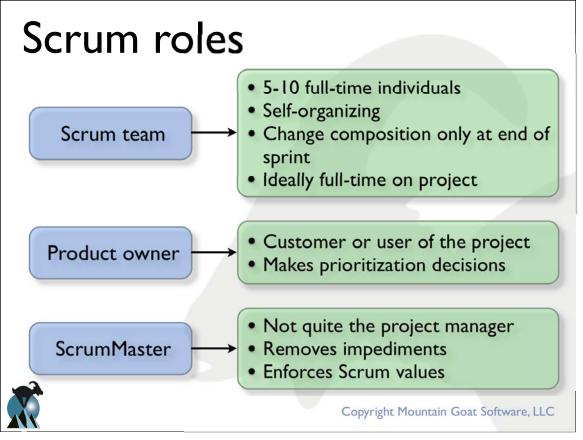


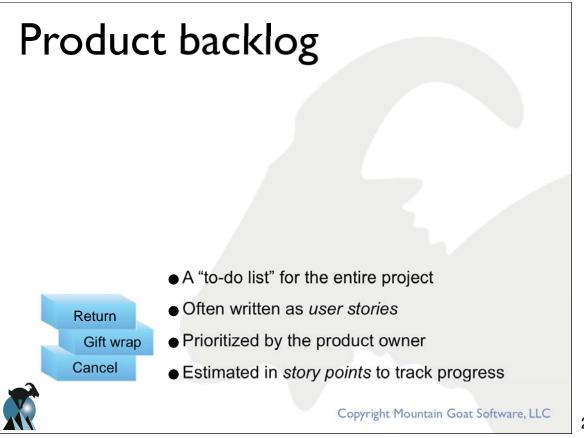


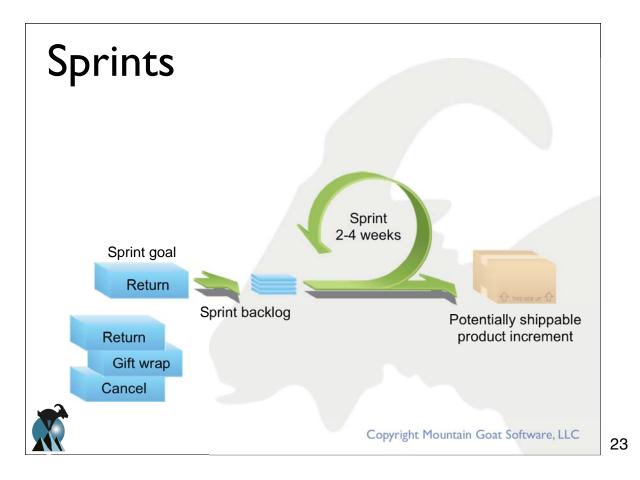
#### Scrum characteristics

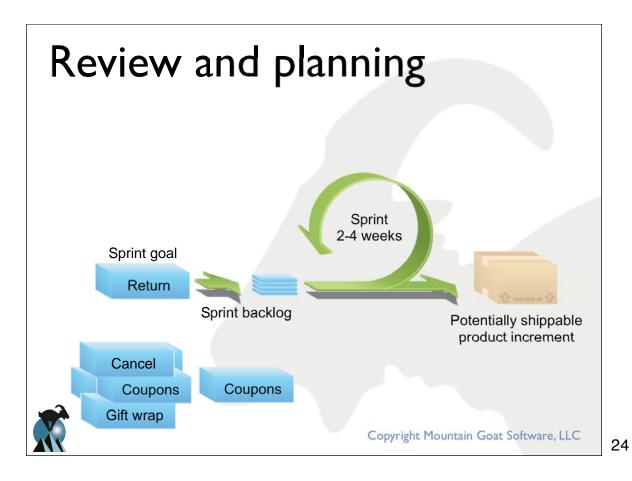
- 30-day iterations called "sprints"
- Self-organizing teams
- No specific engineering practices prescribed
  - But many Scrum teams are adopting much of XP
- Uses generative rules to create an agile environment for delivering projects

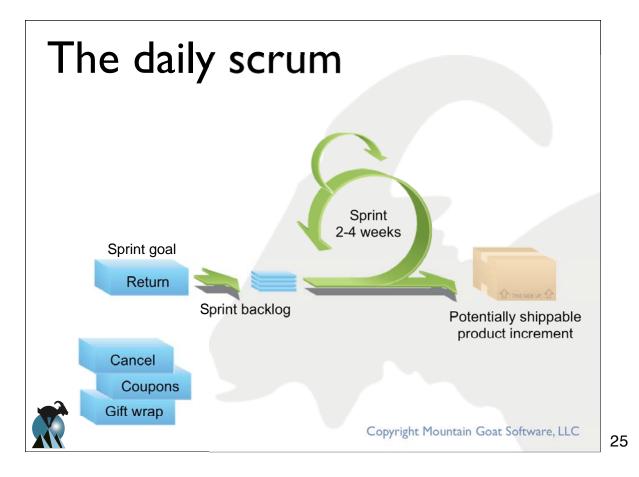


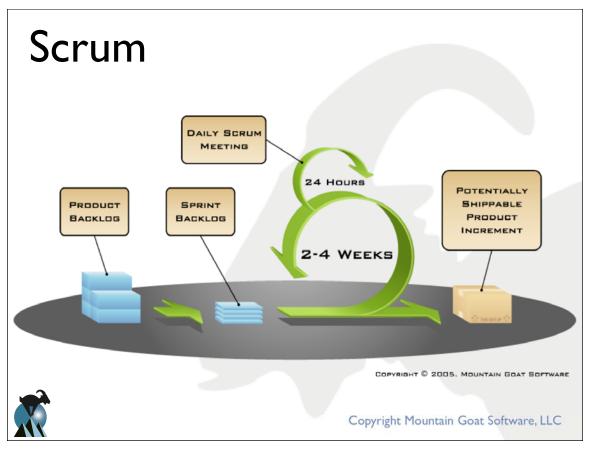


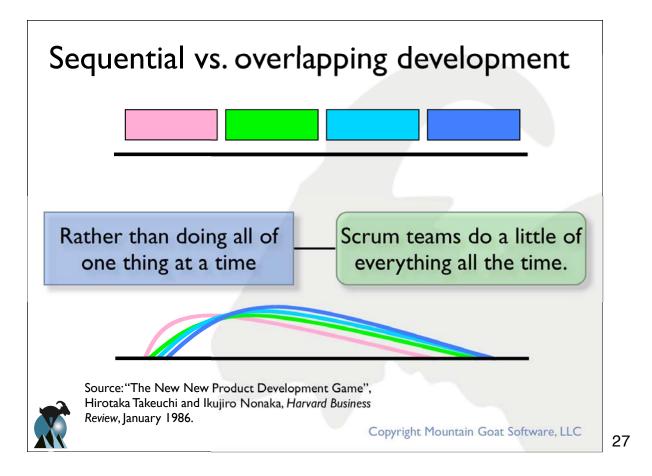




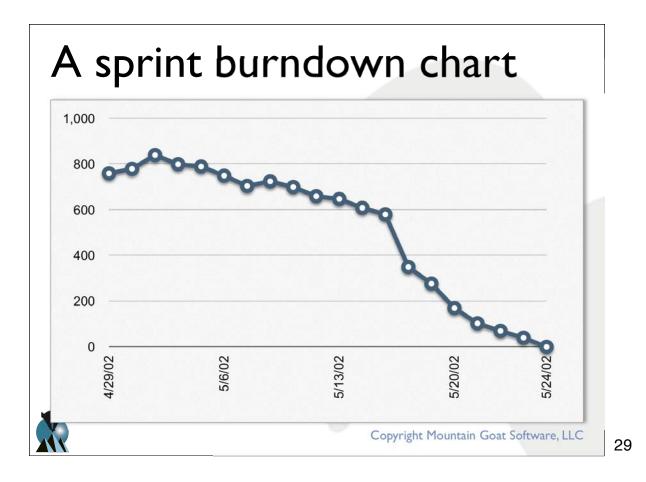


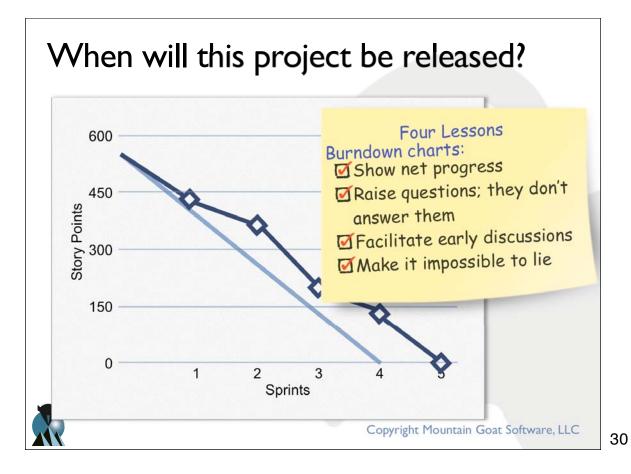


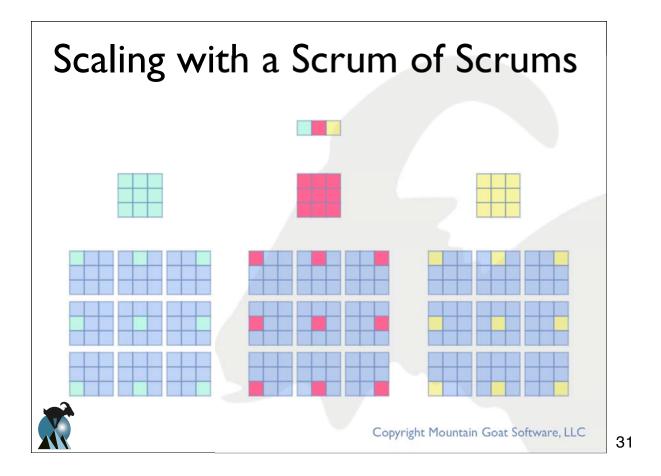








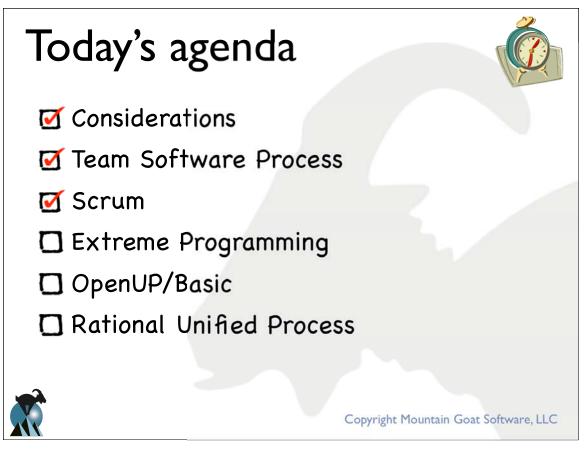




# Choose Scrum if...

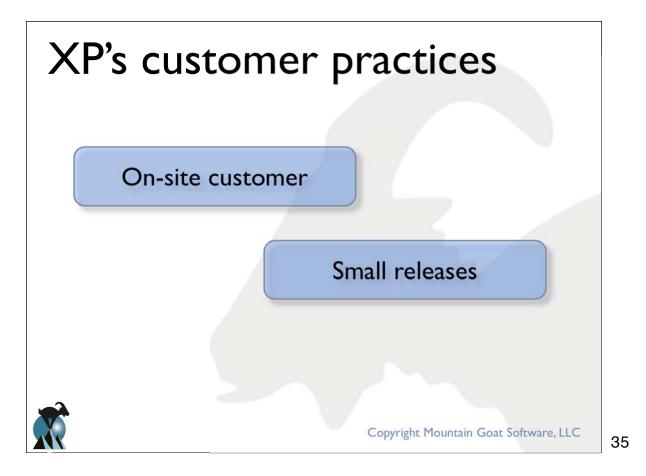
- ...requirements are changing or emergent
- ...you're willing to let the team self-organize
- ...you need a management framework more than a set of engineering practices
- ...you want to better manage risk
- ...you need a proven, scalable agile process

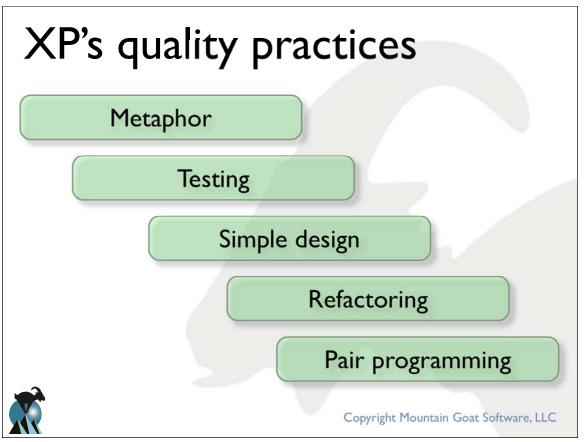


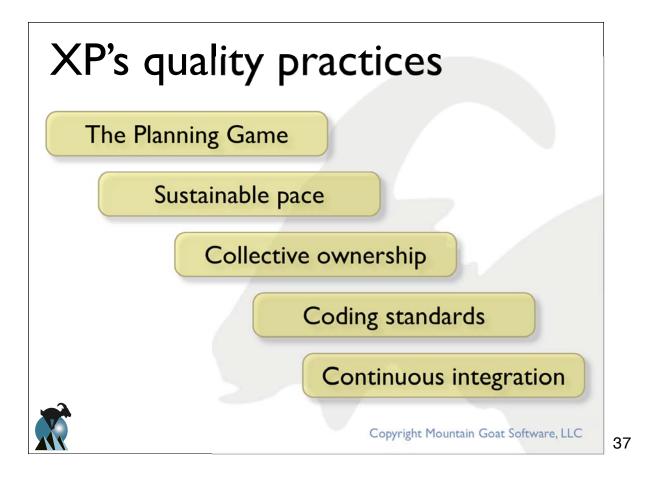


# Extreme Programming Adds specific engineering practices to Scrum's project management approach A tough target to hit but highly productive if you do





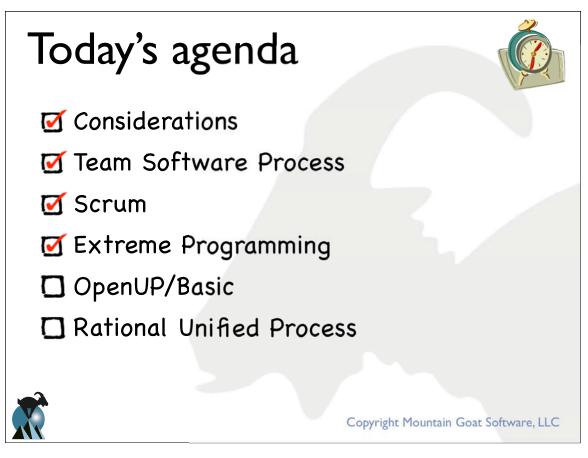






- ...you have loosely-defined or volatile requirements
- ...you have or can develop strong engineering skills and practices
- ...customers can be involved on a daily (hourly) basis
- ...it's important you hit the bulls eye right off and you think you can





# **OpenUP/Basic**

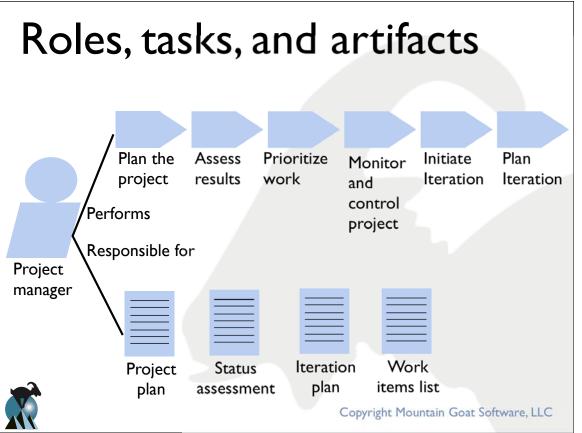
- A subset of the Open Unified Process
- Delivered through the Eclipse Process Framework
- Derived from the Basic Unified Process
  - (If they're unified why are there so many of them?)
- Targeted at teams of 3-6 people
- Targeted at projects 3-6 months long

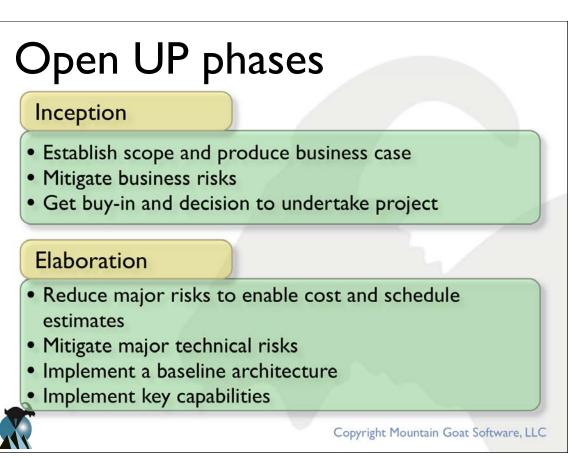


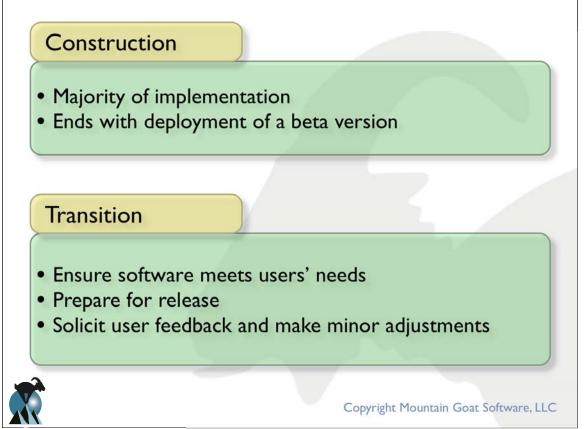
Comparison with RUP						
		OpenUP/Basic	RUP			
	Pages	190	~2000			
	Roles	6	~45			
	Tasks	23	~150			
	Artifacts	17	~80			
Source: What is the Eclipse Process Framework, Per Kroll and Scott Ambler, IBM Rational Software Development Conference 2006. Copyright Mountain Goat Software, L						

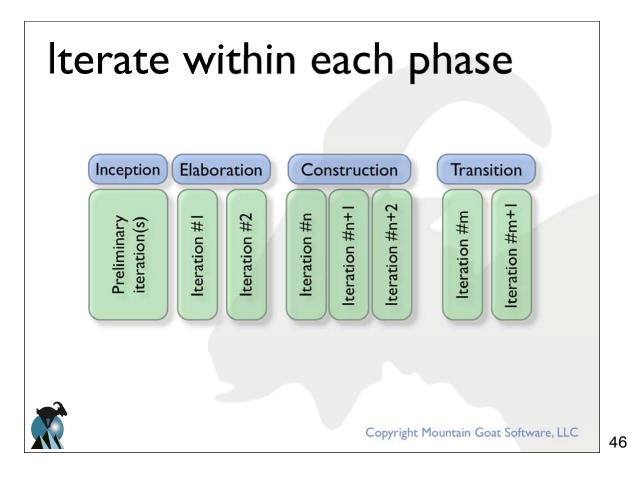
# **OpenUP** roles • Analyst • Architect • Developer • Tester • Project manager

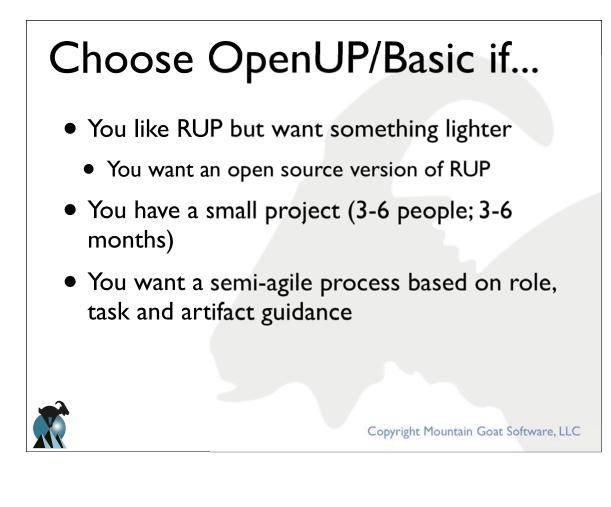


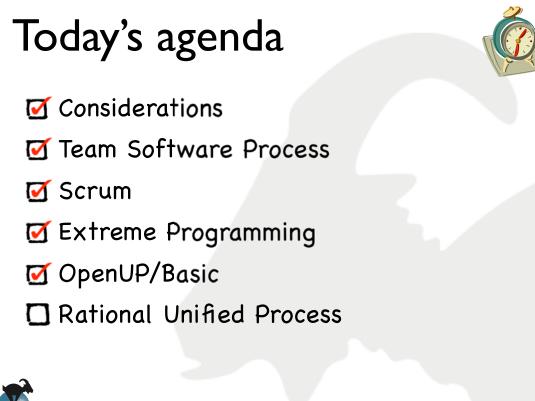










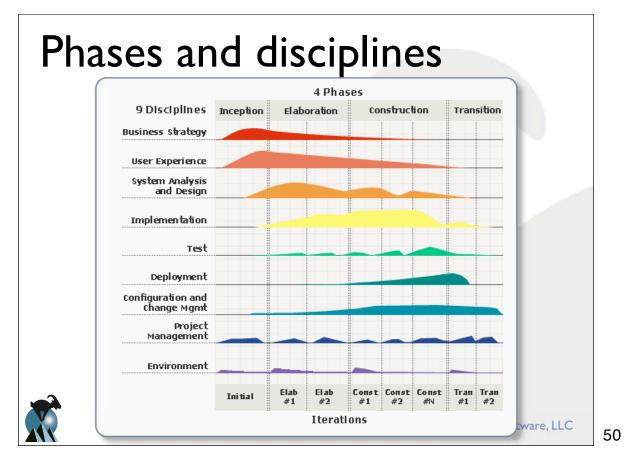


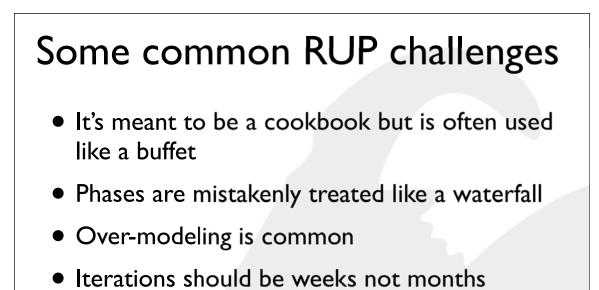
#### The Rational Unified Process

- Proprietary, sold as a product from IBM
- Use case-driven
- Architecture-centric
- Iterative and incremental
- Lots of role, task and artifact guidance
- Strongly oriented toward OO languages



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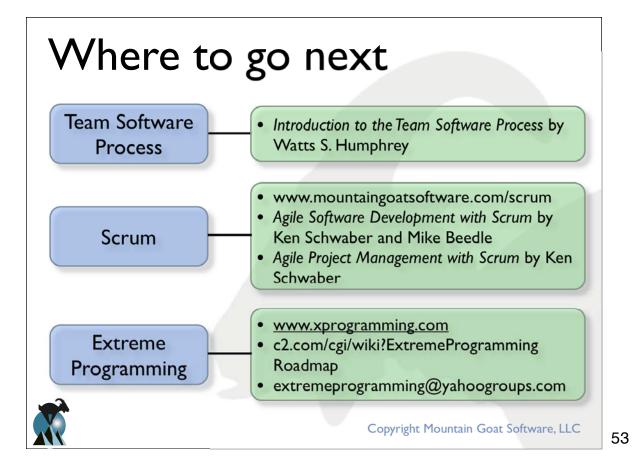
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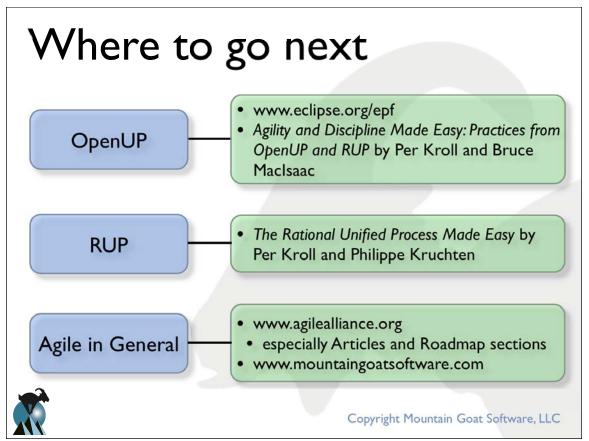
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## Choose the RUP if...

- ...you need a process framework that has everything ever possible already in it
- ...you can resist the temptation to adopt too much of it
- ...you want well-defined roles
- ...it's important to have a well-documented process that new hires may be familiar with
- ...you do not have emergent requirements







U	Upcoming public classes					
	Date	What	Where			
	September 26-27	Certified ScrumMaster	London			
	September 28	Agile Estimating & Planning	London			
	November 7-8	Certified ScrumMaster	Santa Clara			
	November 9	Agile Estimating & Planning	Santa Clara			
	November 29-30	Certified Product Owner (with Ken Schwaber)	Boulder			
	January 16-17	Certified ScrumMaster (with Ken Schwaber)	Orlando			
	w	Register at ww.mountaingoatsoftware.co	m			
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 Mike Cache contact info

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