

#### A closer look at Scrum

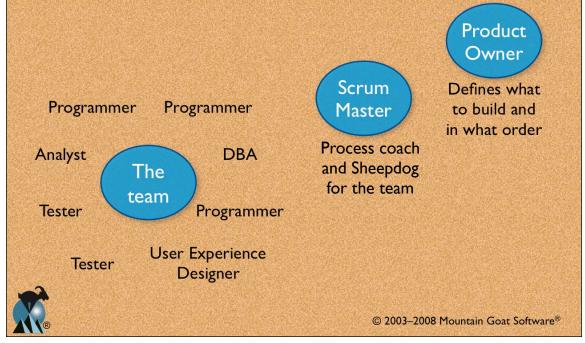
- No specific engineering practices prescribed
  - But many Scrum teams are adopting much of XP
- 2- to 4-week iterations called "sprints"
- Self-organizing, cross-functional teams
- Uses generative rules to create an agile environment

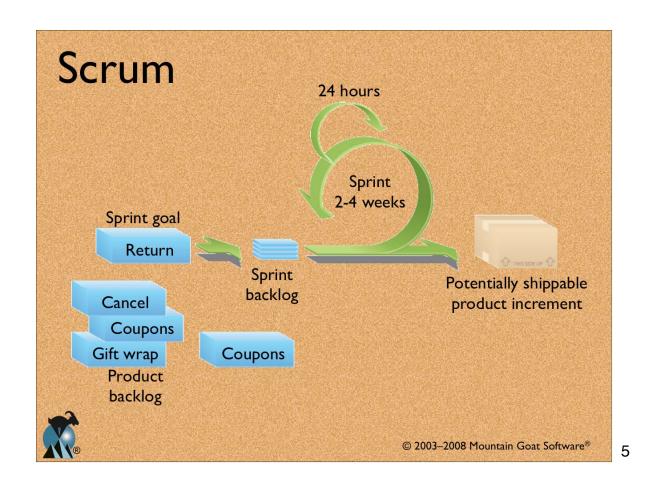


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#### The Scrum project community





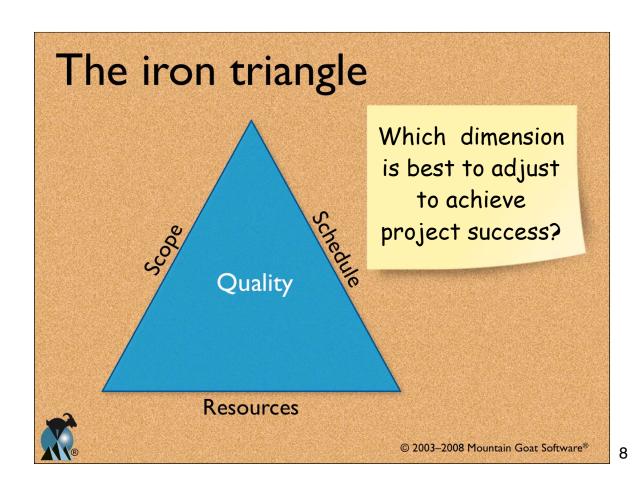


# Sin #1: Gluttony

- Definition
  - Fixing all dimensions (scope, schedule, resources, and quality) of a project
  - A project management sin of excess
- Experienced as
  - Impossible schedules
  - Death marches
- Leads to
  - Trying to do too much for the resources (time, people) available
  - Cutting quality to meet other goals

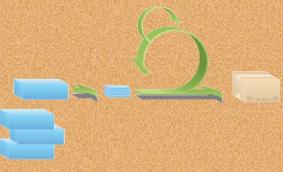


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### Timeboxes help avoid gluttony

- Agile iterations are timeboxed
  - So the schedule of an iteration is fixed
  - But the number of iterations is variable
  - Focus is always on "what can we accomplish next?"



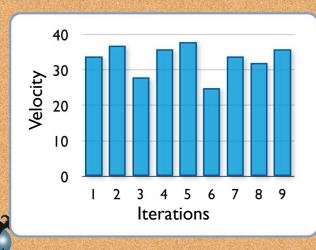


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# Timeboxed iterations increase predictability

 Over time a team learns how much it can complete per iteration (its "velocity")



 Knowing this prevents the temptation to overcommit

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# What expectation of future velocity should this team set?

	Feature A	5	
	Feature B	3	
	Feature C	5	
	Feature F	3	
	Feature D	5	
	Feature E	5	
	Feature G	3	
	Feature I	3	
	Feature H	5	
	Feature J	2	
	Feature K	5	
	Feature L	3	
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✓	Feature A	5		
✓	Feature B	3		
✓	Feature C	5		
	Feature F	3		
	Feature D	5		
	Feature E	5		
	Feature G	3		
	Feature I	3		
	Feature H	5		
	Feature J	2		
	Feeture K			
	Feature L	2		
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#### Sin #2: Lust

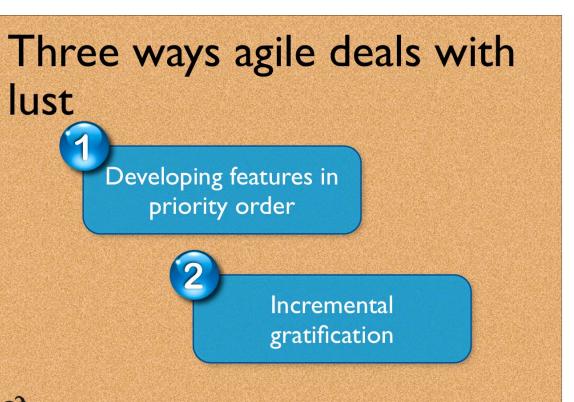
- Definition
  - Intense or unrestrained craving for features
- Experienced as

 Trying to put too many features into a product during the time allowed

- Treating all features as "critical"
- Leads to
  - Overtime, reduced quality, surprises









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# Working at a sustainable pace

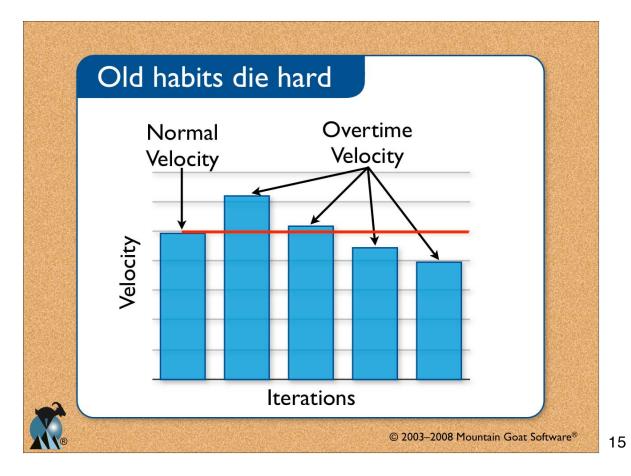
"Overtime is a symptom of a serious problem on the project. The XP rule is simple—you can't work a second week of overtime. For one week, fine, crank and put in some extra hours. If you come in on Monday and say 'To meet our goals, we'll have to work late again,' then you already have a problem that can't be solved by working more hours."



~Kent Beck



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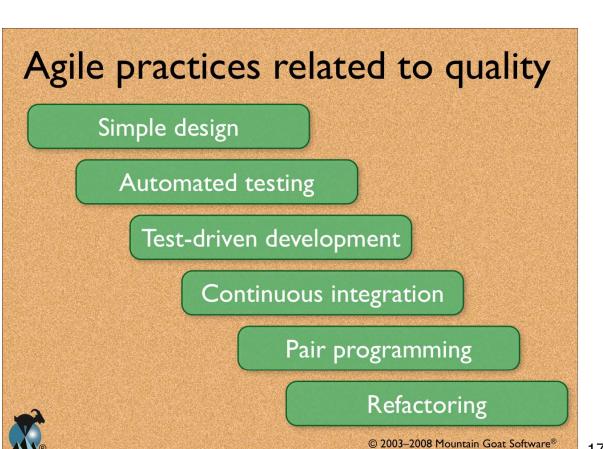
#### Sin #3: Sloth

- Definition
  - Failing to do high quality work at all times
- Experienced as
  - Testing quality in at the end
  - Instability during development
- Leads to
  - Big delays
  - Unpredictable schedules





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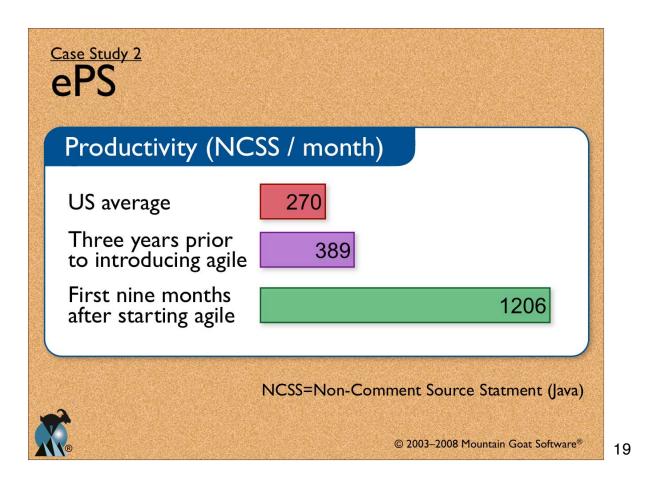


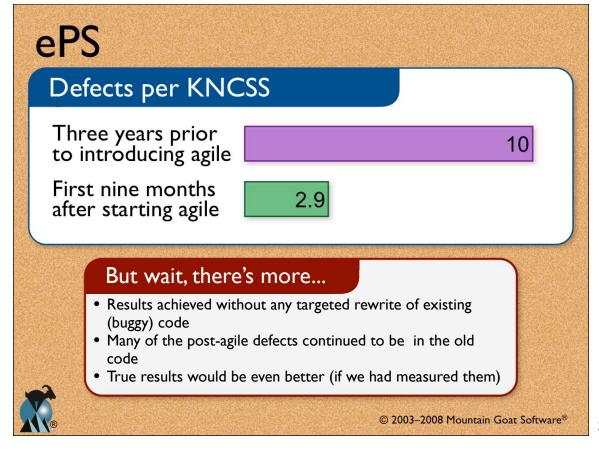
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#### Case Study I Cosmodemonic Biotech

	Waterfall	Scrum
Use Case pages	3,000	
User Stories		1,400
Calendar months	9	12
Person months	540	54
Lines of Java code	58,000	51,000
Lines of Java code per person-month	120	840



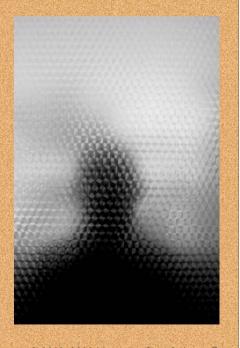




## Sin #4: Opaqueness

- Definition
  - Obscuring the progress, quality or other attribute of a project
- Experienced as
  - Not knowing the true state of the project
- Leads to
  - Surprises
  - Poor decisions





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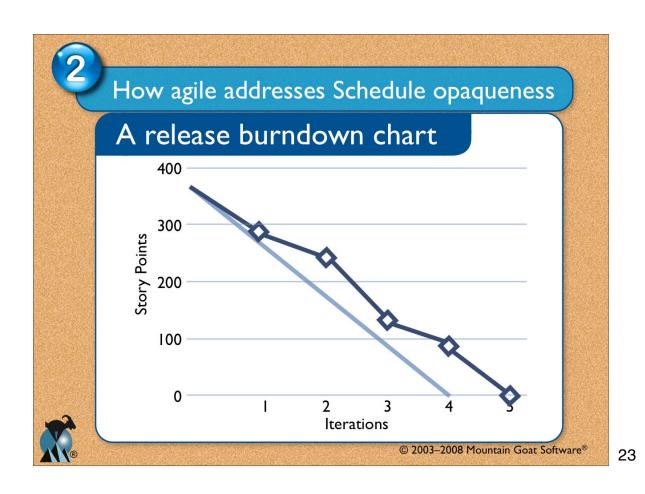
# Three types of opaqueness

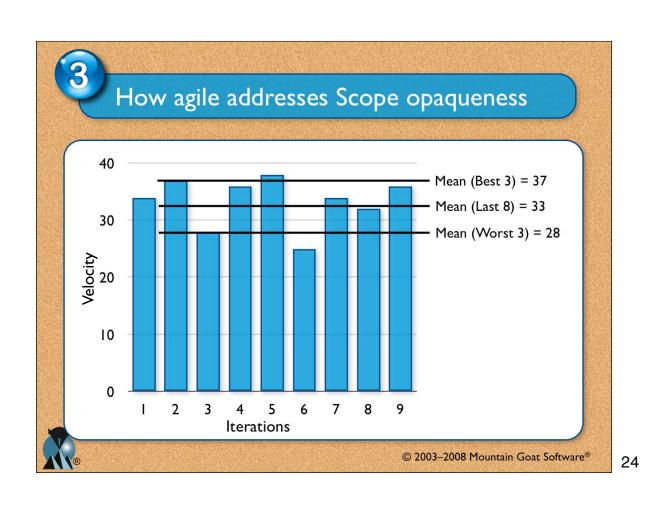


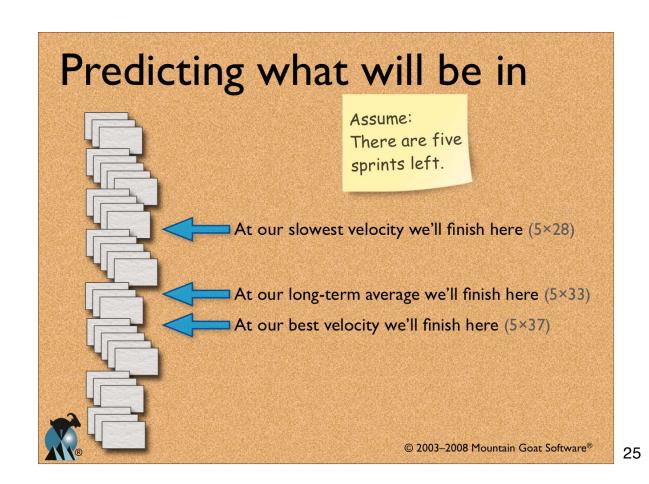
How agile addresses Quality opaqueness

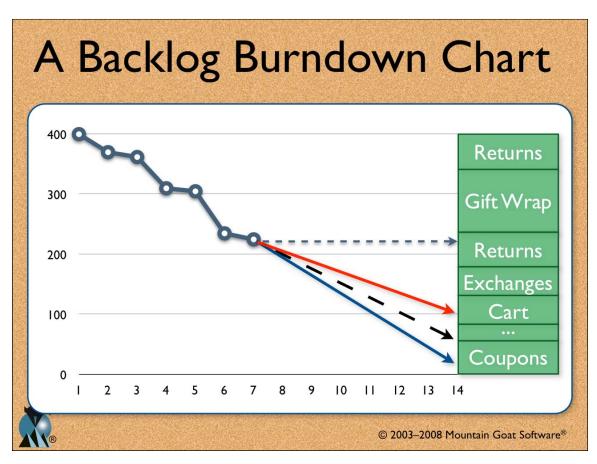
- Don't let bugs accumulate
- Continuous integration
- Features are either "Done" or "Not Done"
  - Avoids the 90% Syndrome











#### Sin #5: Pride

- Definition
  - Believing that we know everything to build the product
- Experienced as
  - A lack of stakeholder and user involvement
- Leads to
  - Failure to solicit feedback
  - Failure to learn





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## Agile requirements

"User stories" facilitate working closely with users & customers

me.

As a user, I want to reserve a hotel room.

As a vacation traveler, I want to see photos of the hotels so that I can choose the best one for

As a user, I want the site to be available 99.999% of the time I try to access it.



Progressive refinement

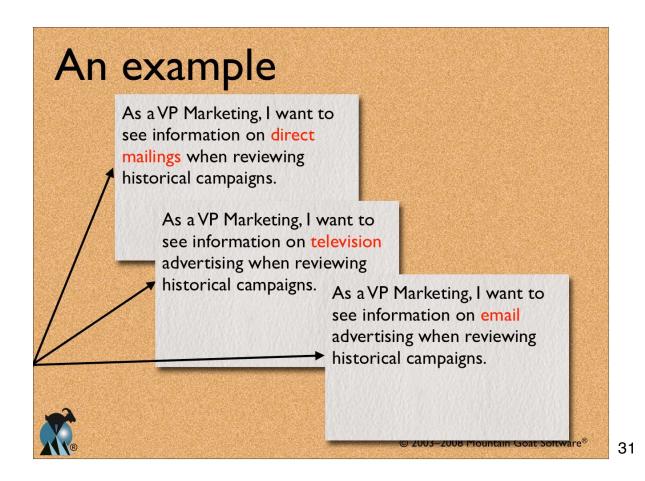
As a VP Marketing, I want to review the performance of historical promotional campaigns so that I can identify and repeat profitable ones.

As a VP Marketing, I want to select the timeframe to use when reviewing the performance of past promotional campaigns, so that I can identify and repeat profitable ones.

As a VP Marketing, I can select which type of campaigns (direct mail, TV, email, radio, etc.) to include when reviewing the performance of historical promotional campaigns.

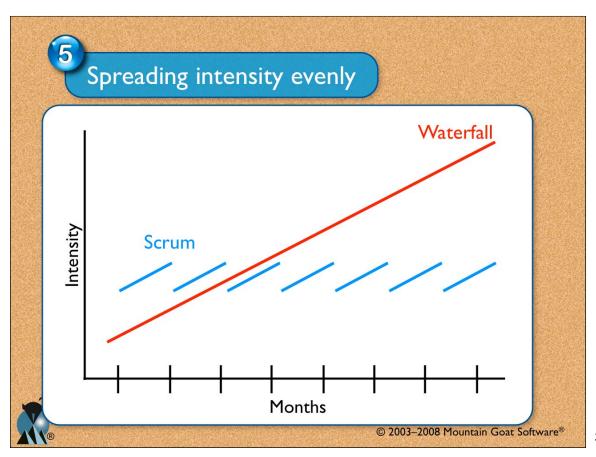


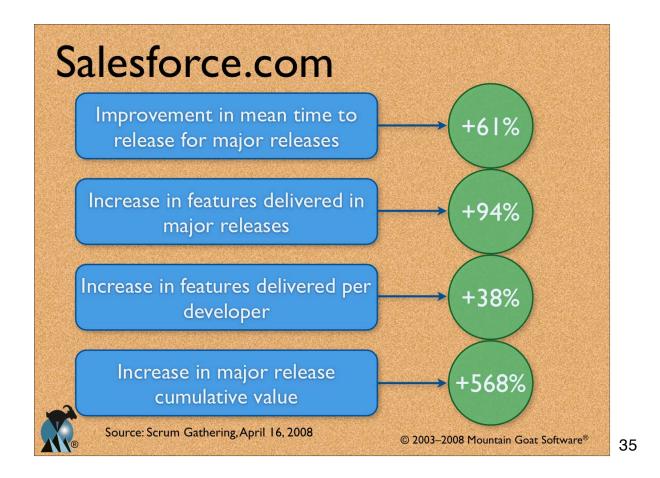
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# Sin #7: Myopia (Shortsightedness) Definition Not seeing beyond your own work Experienced as Teams who don't see the big picture Individuals who work only



within their roles

Unsuccessful products

Leads to

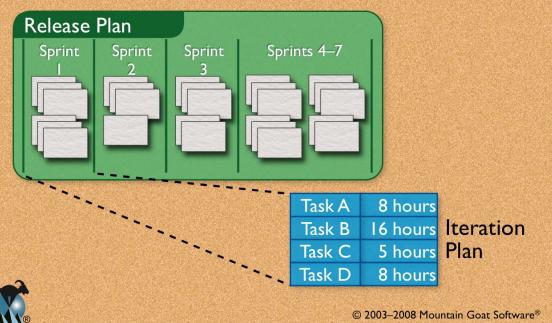
Delays

FELOPZD

DEFPOTEC

LEFODPCT







- All disciplines necessary to go from idea to implementation
- Improves creativity and ownership
- Whole team commitment

But does that make everyone a generalist?





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