Your fastest way to learn. Why wait?

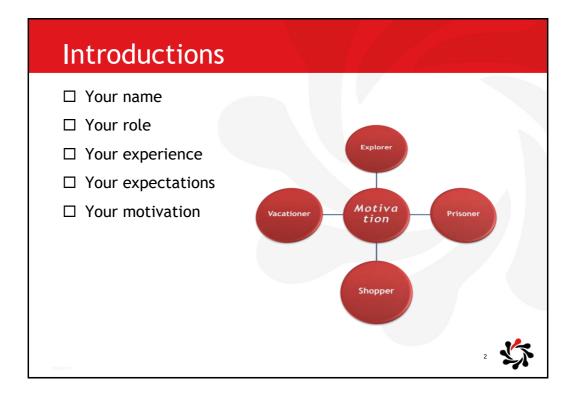
# Firebrand's training to prepare you for Scrum.org's Professional Scrum Master Certification

Courseware Slides & Notes

Version 2.5

### Scrum Master Foundations

Theory, Practice & Assessment



### **Course Structure**

#### □ This evening

Introduction, orientation and preparatory reading

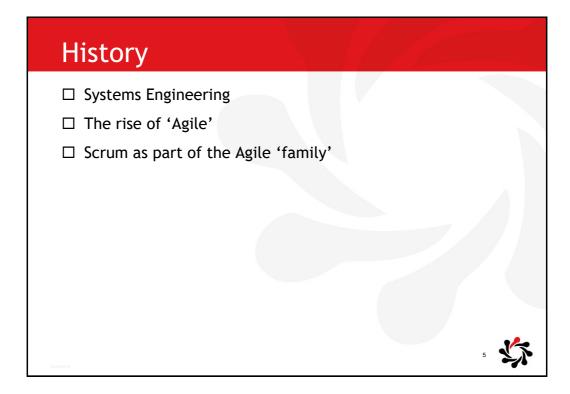
#### □ Tomorrow

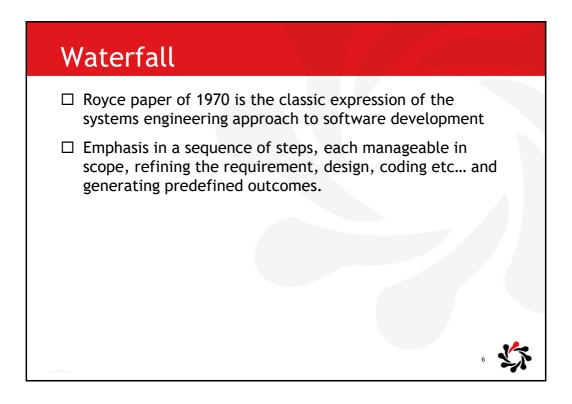
- Scrum Theory & Practice
- Scrum Tools,
- Approaches & Exercises

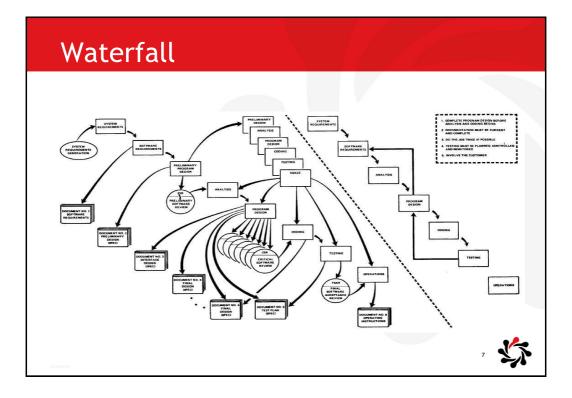
#### □ Final Day

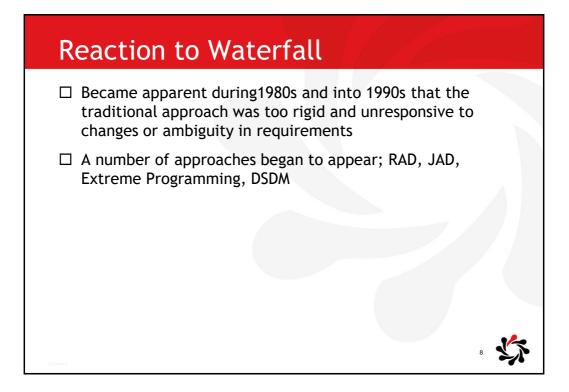
- Scaling Scrum
- Practice Exercises (if time available)
- SCRUM.org PSM I Examination

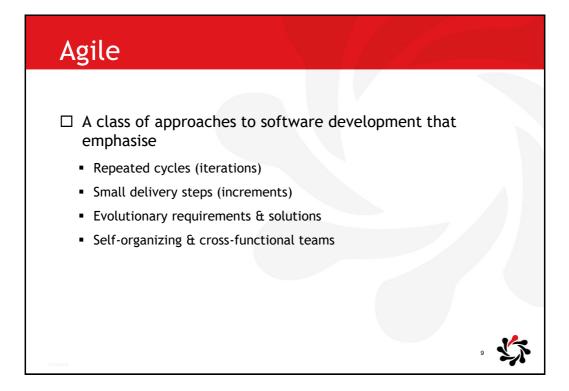




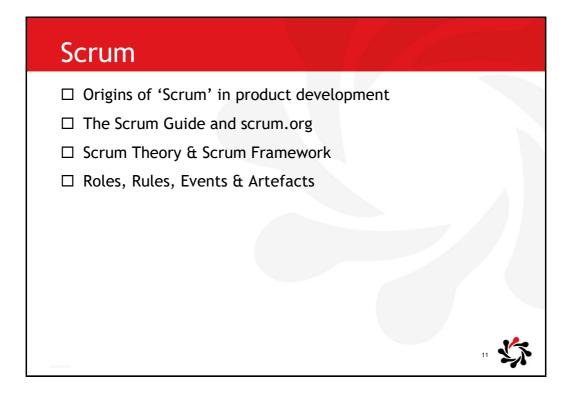




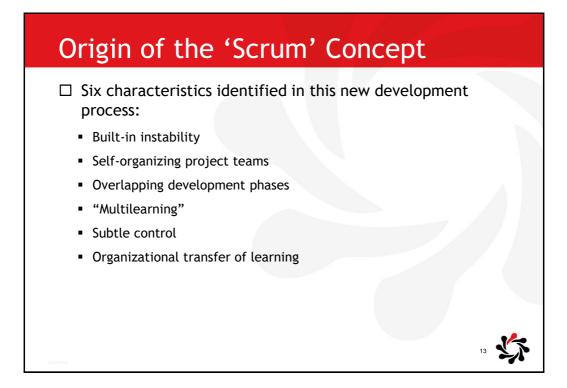


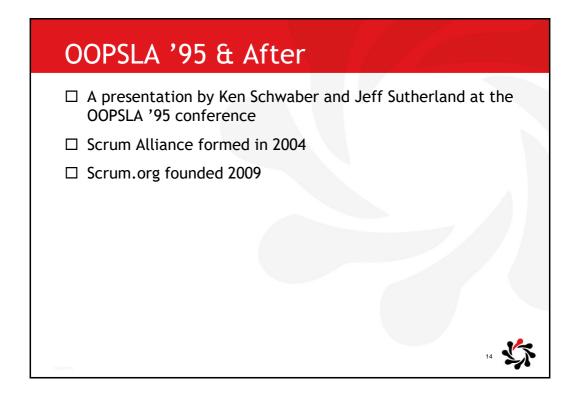


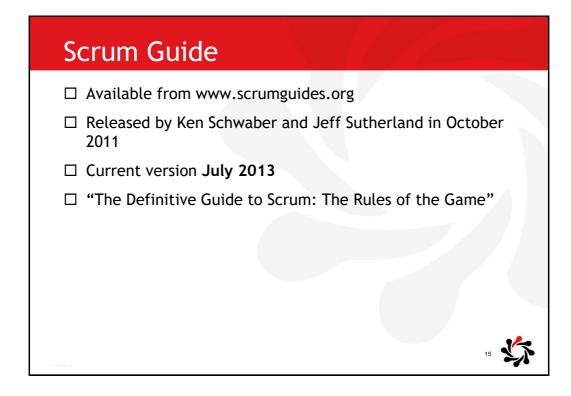


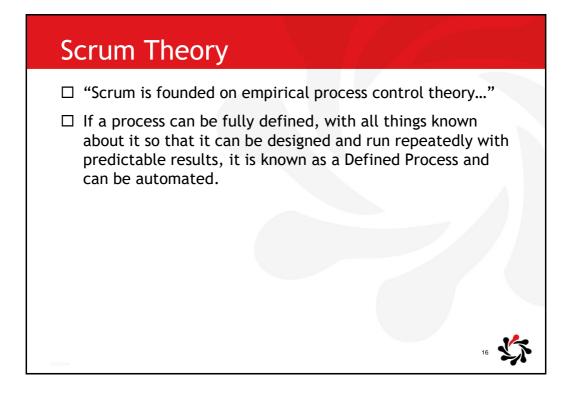


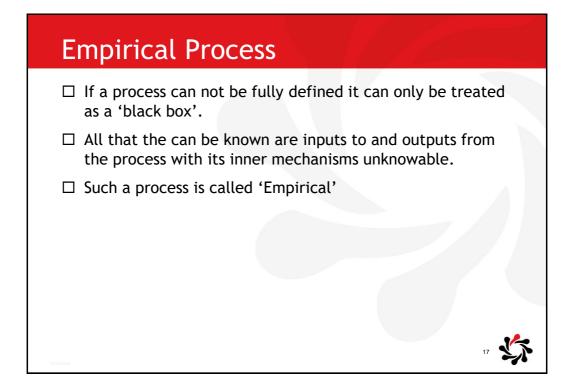


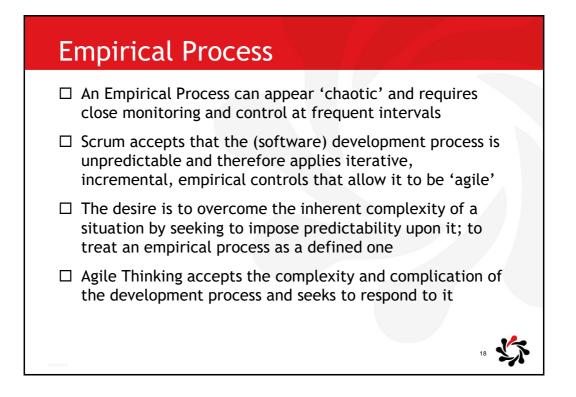












### Scrum vs. Traditional Methods

W	hen to use Scrum	W	hen to use traditional methods
•	Scope is not clearly defined at project start The (final) product will defined during the project	•	Scope is clearly defined upfront. Clear product description is available upfront Similar projects were done before
•	Change of requirements will be very likely Customer learns more about what he wants as the project matures	• • •	Requirements are well defined up front. Just few changes are expected during the project Products are not expected to change during project execution (with formal change process)
•	Activities to produce scope cannot be well defined upfront Effort and duration estimating is difficult	•	Activities to produce scope can be well defined upfront Estimating is possible and reliable
•	Process is iterative (numerous cycles) Each cycle depends on the results and experience of the previous ones	•	Process is more long term Project might be split into phases
•	Success is mostly measured by customer satisfaction	•	Success is mostly measured by achieving the project goals for time, cost, scope
•	Incremental results have value and can be used by users	•	Users normally do not start using the products until the project is complete (e.g. a bridge)
			19

# Scrum - fiction and facts

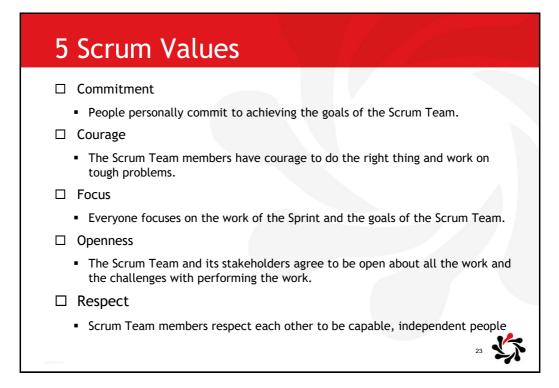
•	Developers are free to do what they want. There is no discipline, structure	<ul> <li>Fact</li> <li>Developers work in a productive and predefined framework</li> <li>Scrum Master makes sure everyone follows Scrum.</li> <li>Scrum affords a high discipline by all participants</li> </ul>
•	Scrum gets rid of all paper work and allows the team to start developing right away.	<ul> <li>The paper work should be reduced to what is absolutely necessary</li> <li>Scrum has re are defined planning steps involved in every Scrum project</li> <li>Development can only start when the Sprint Backlog has been defined.</li> </ul>
•	All requirements (User Stories) must be agreed before the Development Team is allowed to start working on the product.	<ul> <li>The Development Team can start working as soon as there is an initial Product Backlog defined.</li> <li>The content of this initial Backlogs creates value.</li> </ul>
•	Scrum is very easy to implement, even without training.	<ul> <li>Using Scrum is a big change in an organisation and the mind set of all participants. People doing Scrum must have a very good understanding of Scrum to be able to run their projects well.</li> </ul>
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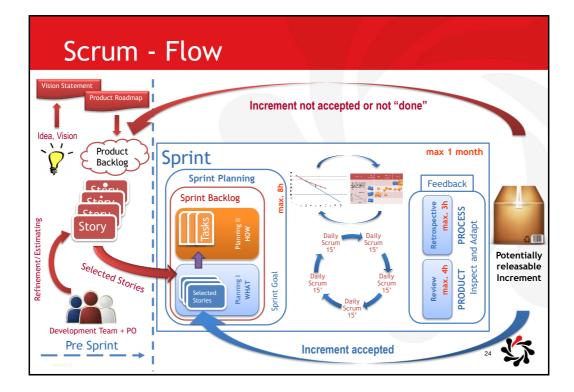
### Scrum - fiction and facts

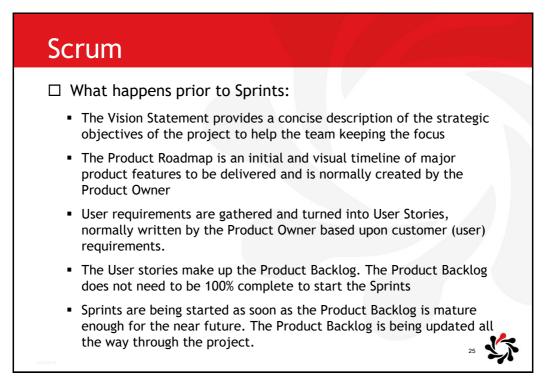
Fiction	Fact
• The Scrum Master is like a project manager.	<ul> <li>There is no role similar to a traditional project manager in Scrum.</li> <li>The Scrum Master makes sure the Scrum framework is followed. The role of a Scrum Master is more of a "Process Manager"</li> </ul>
• Scrum does not require a Business Case.	<ul> <li>There should be a justified and documented reason WHY money end effort should be spent.</li> <li>The Product Owner is responsible for ensuring that there is a clear VISION of a feasible product/result. The PO must know its value.</li> </ul>
<ul> <li>Scrum allows the Development Team to decide what will be delivered.</li> </ul>	<ul> <li>A Development Team only decides on HOW to deliver</li> <li>It is the Product Owner to determine WHAT will be delivered.</li> </ul>

# Scrum - fiction and facts

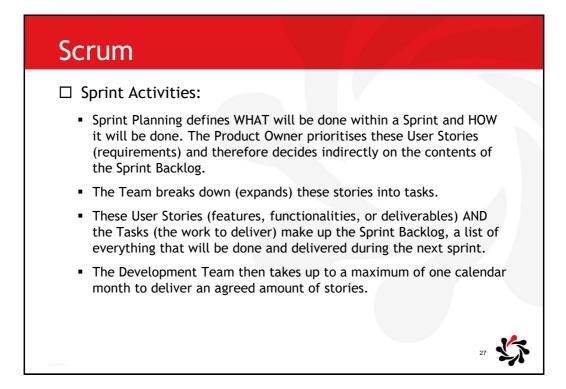
Fiction	Fact
The Product Owner is the project manager.	<ul> <li>The Product Owner creates and maintains the Product Backlog, but does not manage the day to day activities of the Team.</li> </ul>
<ul> <li>Scrum tells us everything about managing projects.</li> </ul>	<ul> <li>Scrum mostly deals with the definition and delivery of the products. Many of the business oriented aspects of the project are done outside Scrum.</li> </ul>
The Product Owner is a representative from the customer.	<ul> <li>The Product Owner is one of the people from the performing organization (the organization in charge of producing the final product of the project; a contractor in many cases), and the contact point with the customer.</li> </ul>
<ul> <li>Scrum can only be applied with in-house software development projects</li> </ul>	<ul> <li>Scrum as a framework can be applied to almost every project that is not completely predictable.</li> </ul>



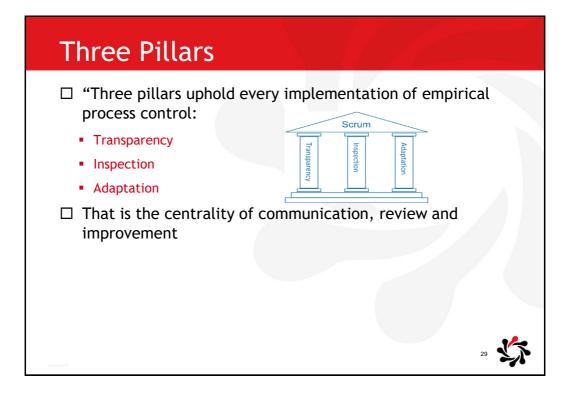


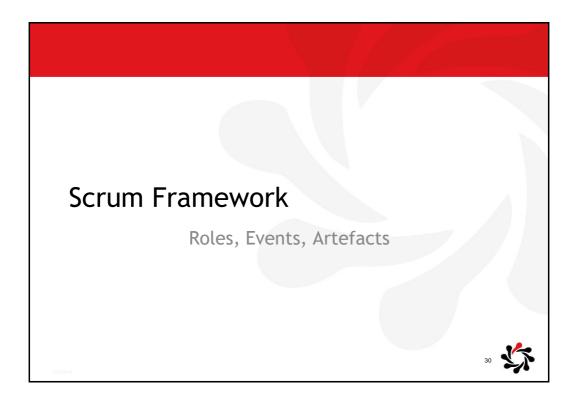


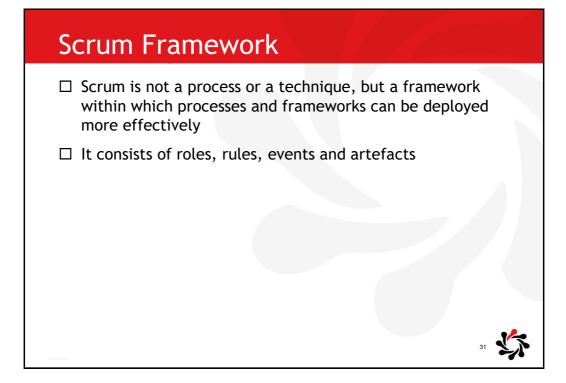


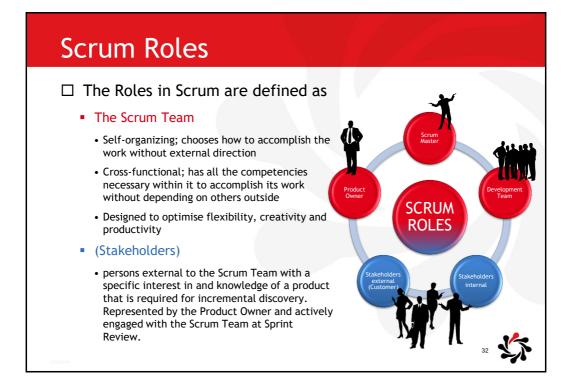


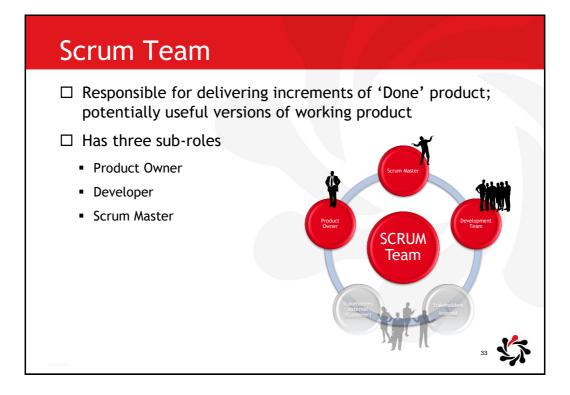


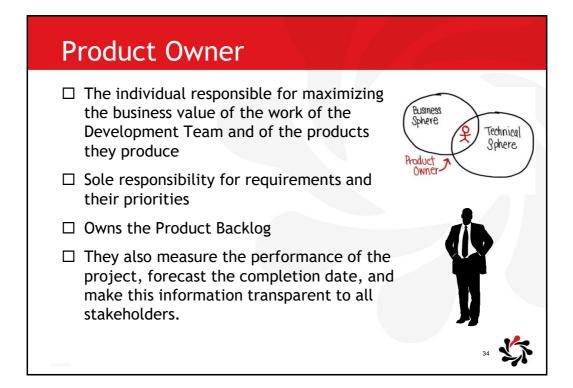






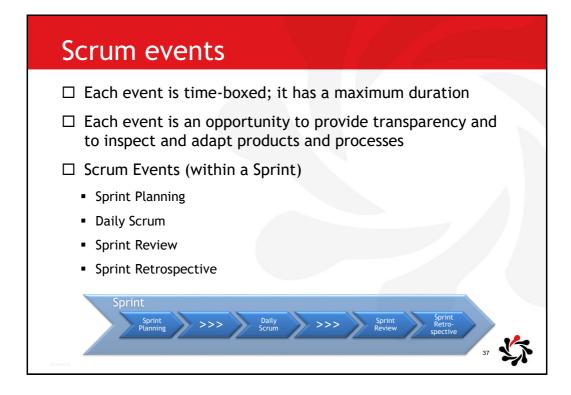


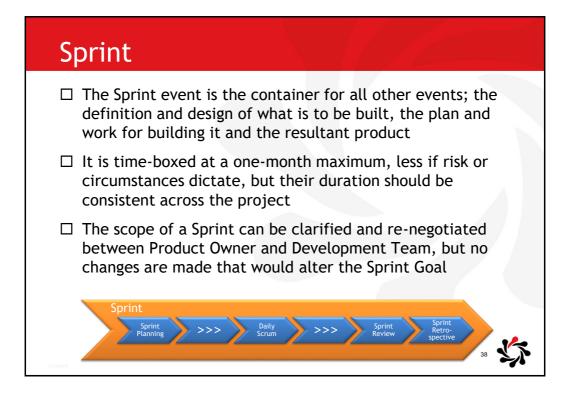


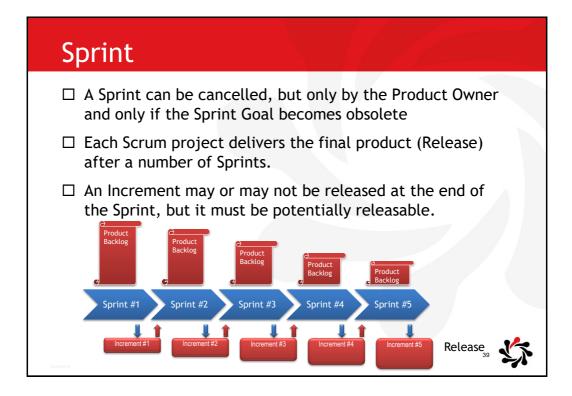


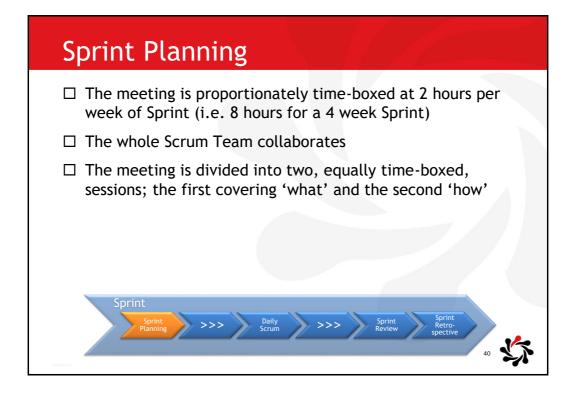


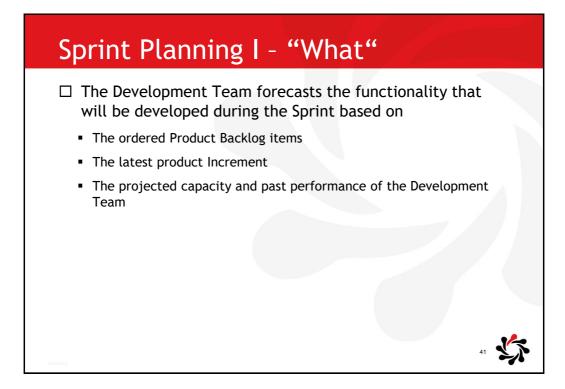
<ul> <li>The Scrum Master is a servant-leader for the Scrum Team. His/her role is to facilitate Scrum practice within the Scrum Team and within the larger organization</li> <li>The Scrum Master is a management position, he/she manages the Scrum process, rather than the Scrum Team.</li> <li>The Scrum Master is not the manager of the Development Team which is self-organising</li> <li>He/she should also bein those outside the Scrum</li> </ul>	S	Scrum Master					
<ul> <li>manages the Scrum process, rather than the Scrum Team.</li> <li>The Scrum Master is not the manager of the Development Team which is self-organising</li> </ul>		Team. His/her role is to facilitate Scrum practice within the Scrum Team and within the larger					
Development Team which is self-organising		manages the Scrum process, rather than the Scrum					
$\Box$ He/she should also bein those outside the Scrum							
Team understand the appropriate interactions with the Scrum Team to maximise the value created by the Scrum Team. The Scrum Master usually leads the organisation in its effort to adopt Scrum.		the Scrum Team to maximise the value created by the Scrum Team. The Scrum Master usually leads the					

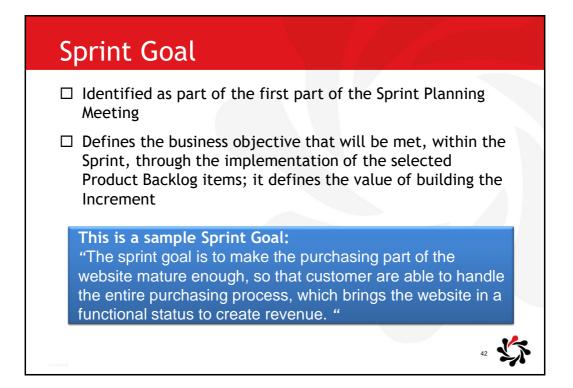


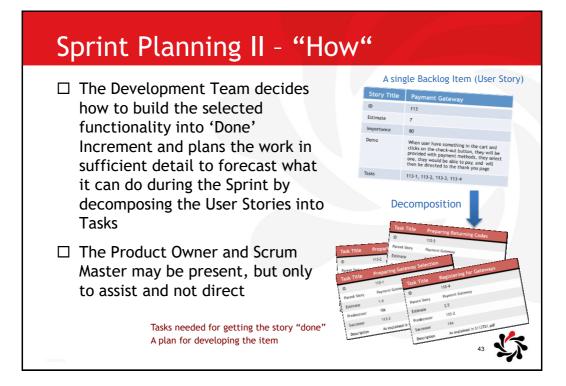


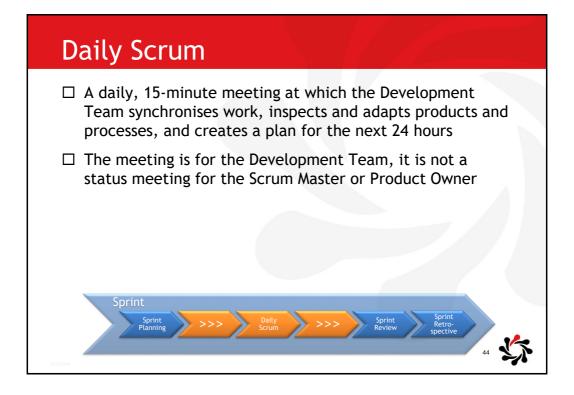


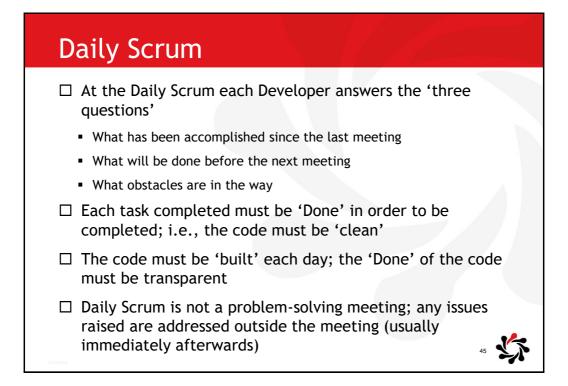


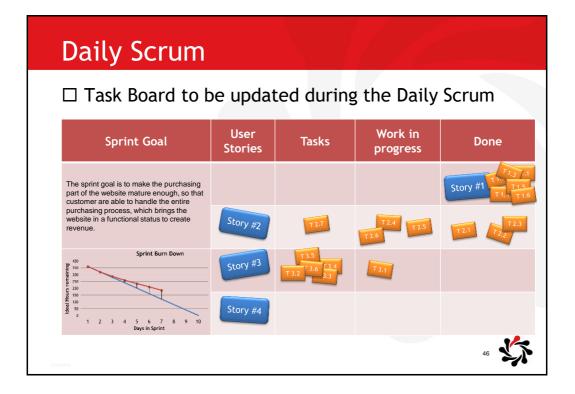


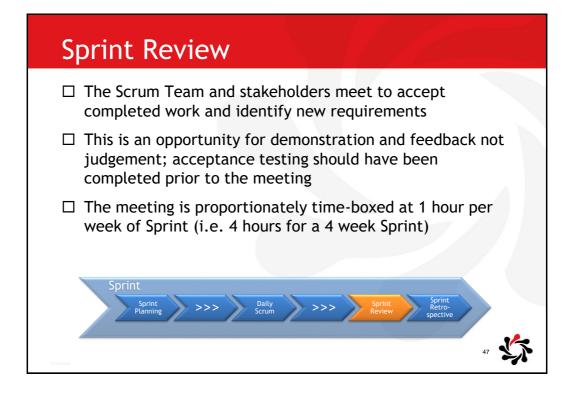


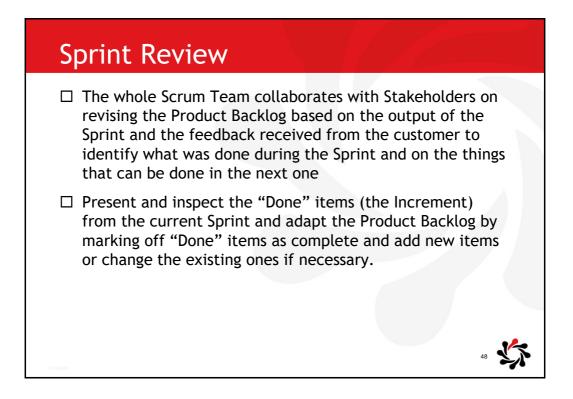


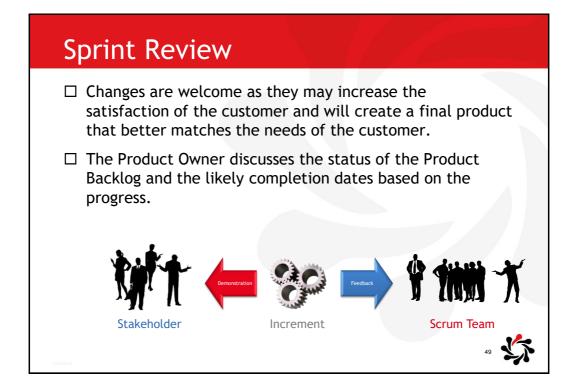


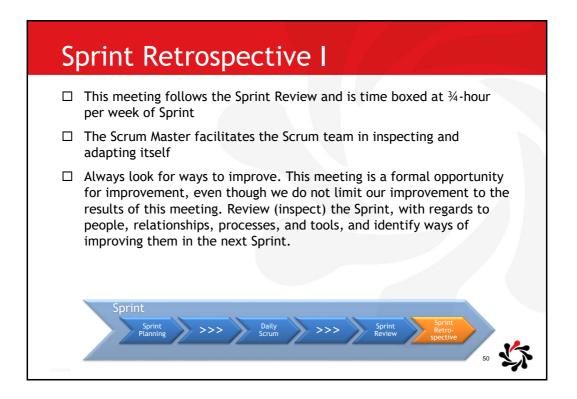


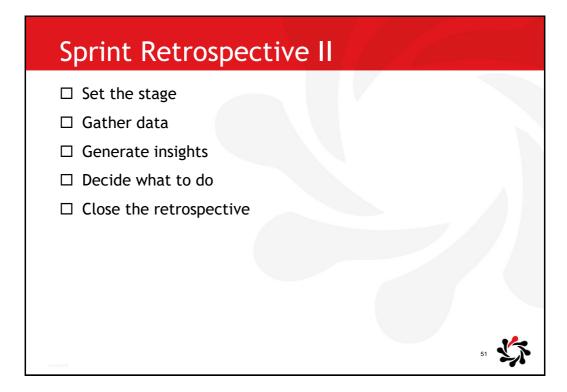


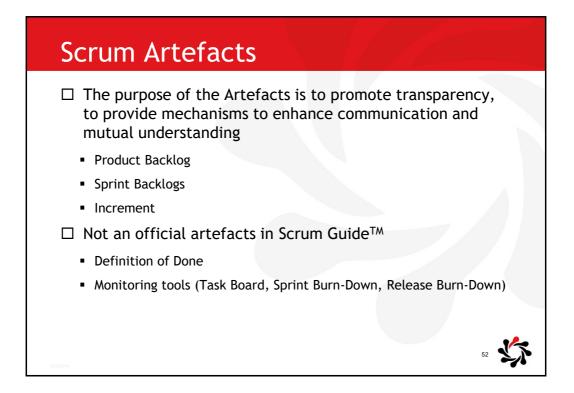


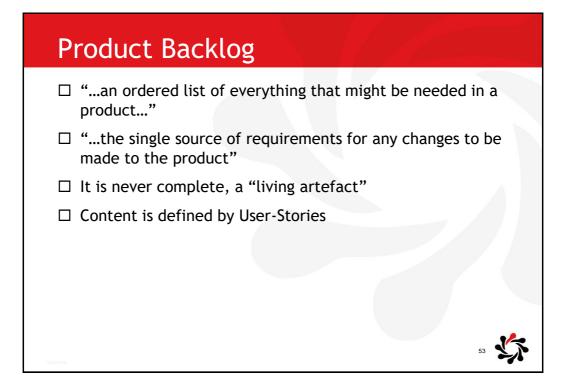


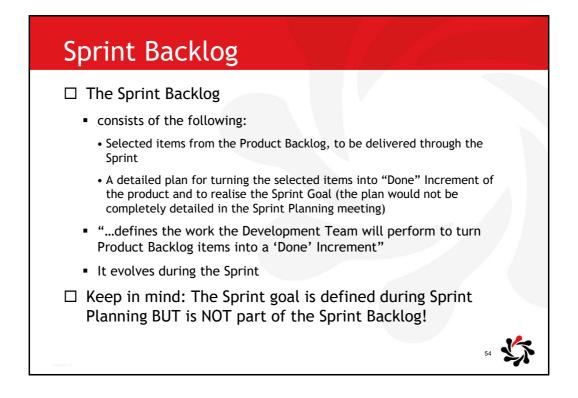


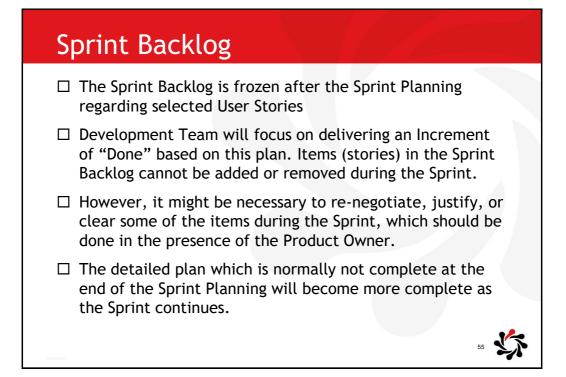


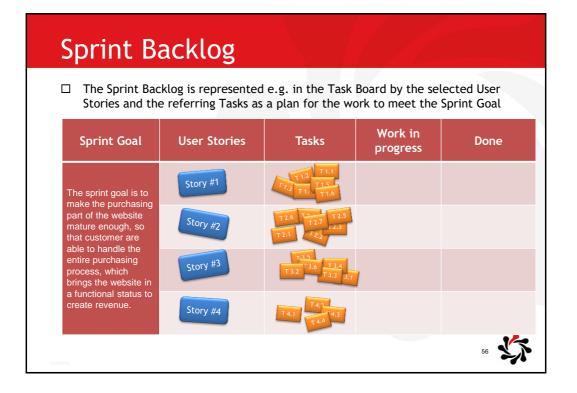


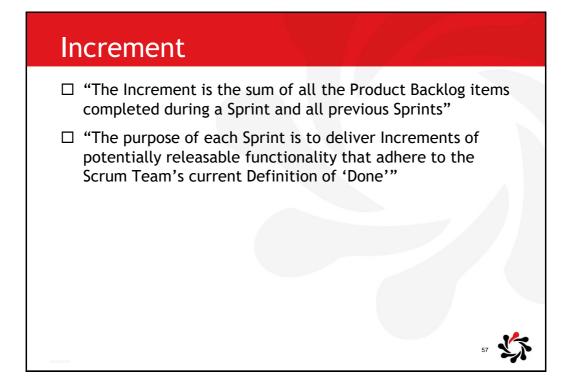


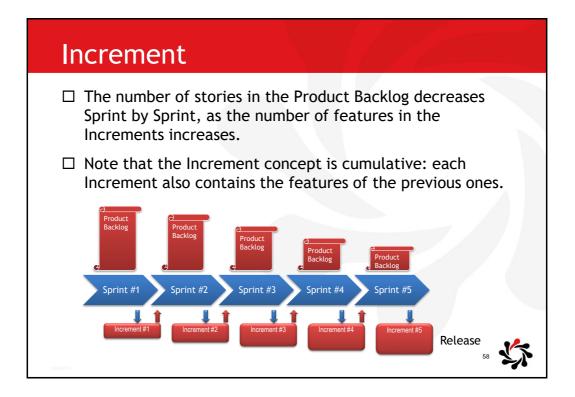




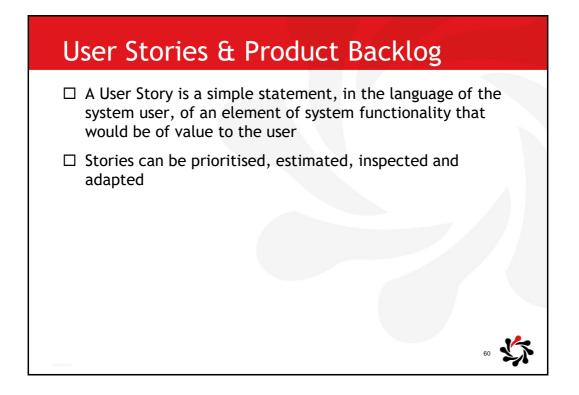


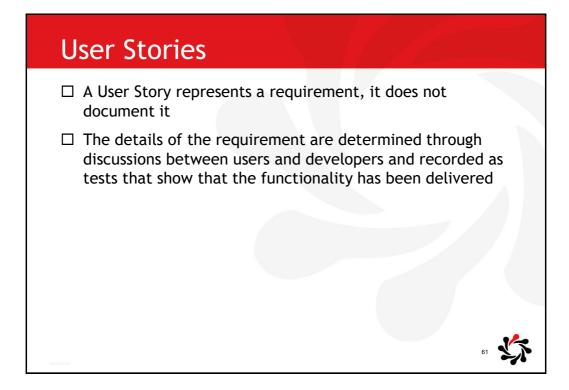


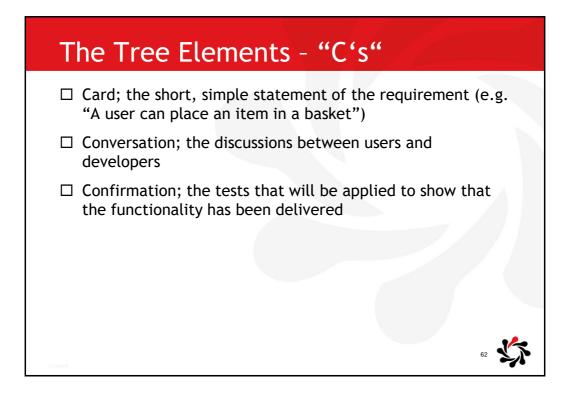


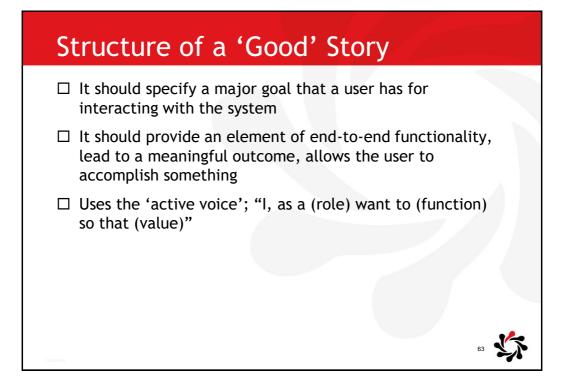


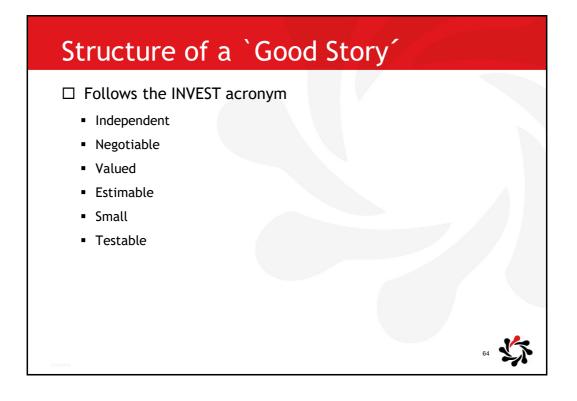


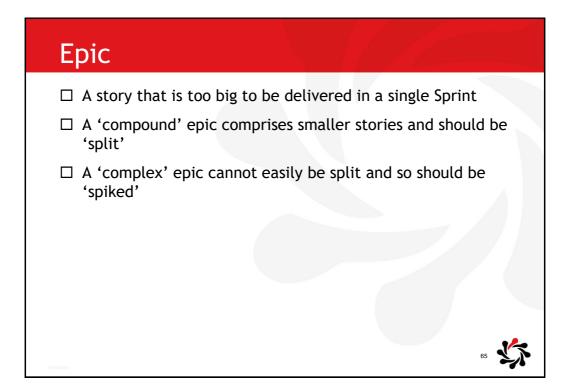


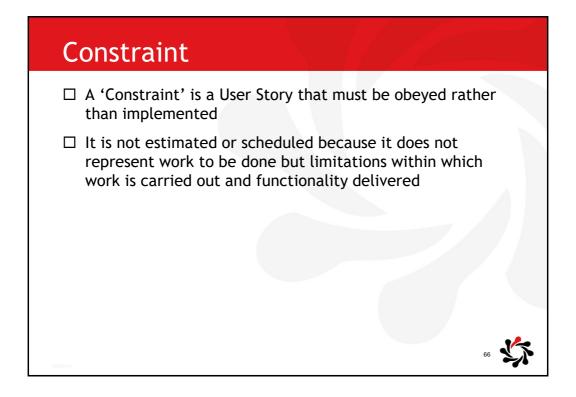


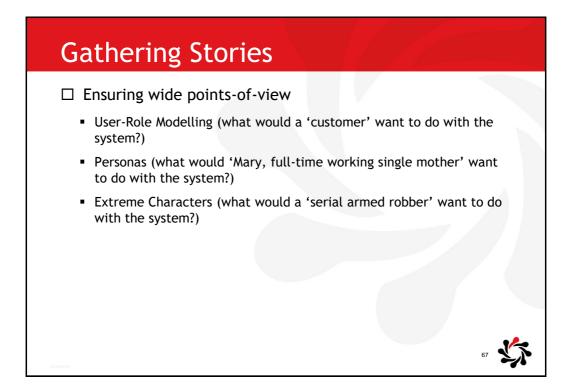




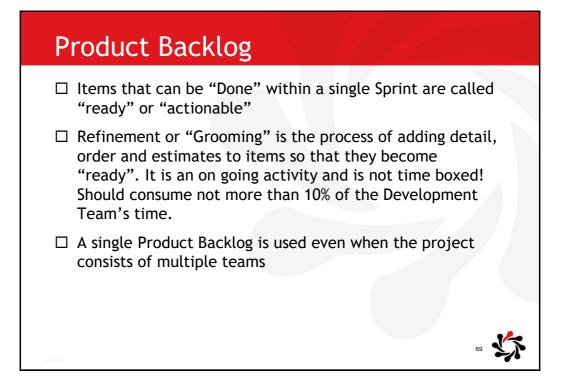


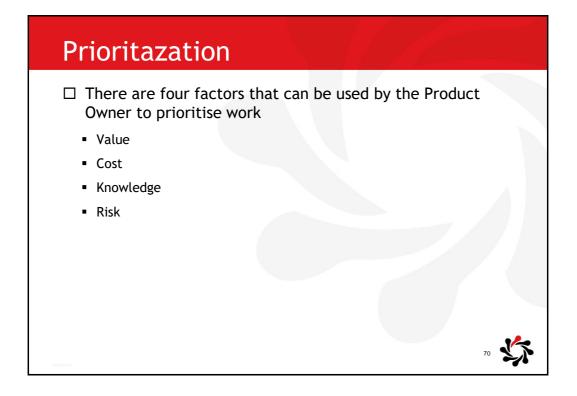


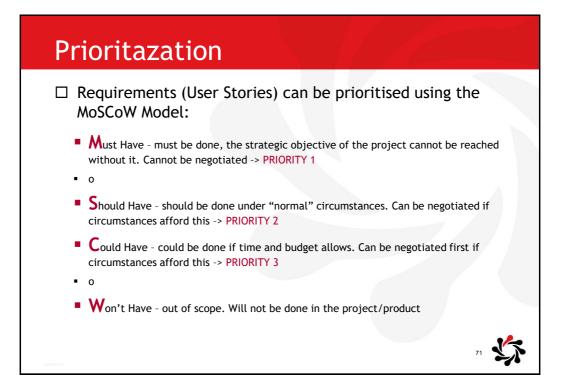


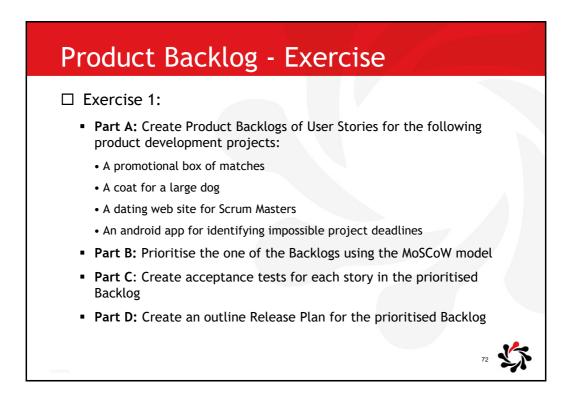


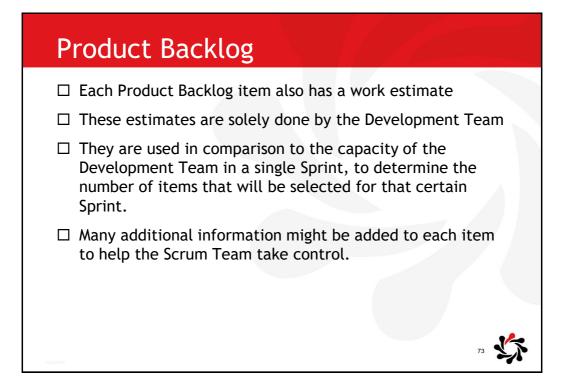


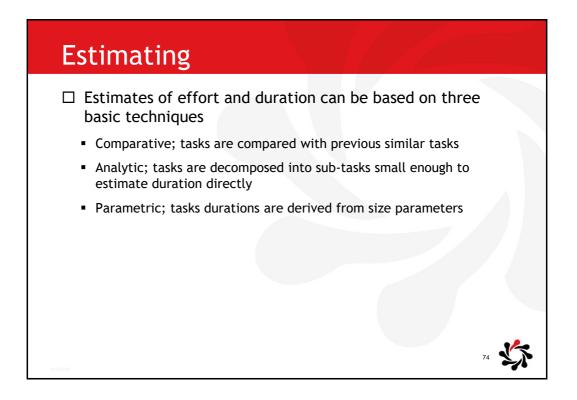


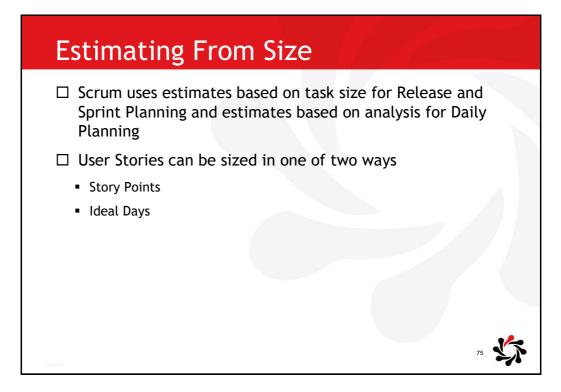


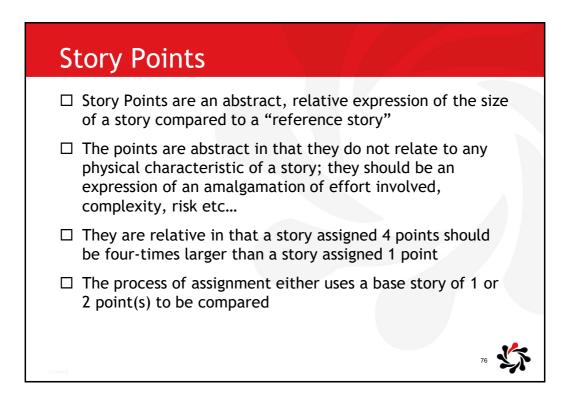


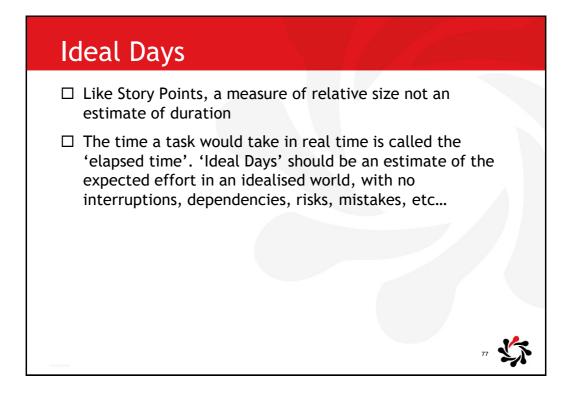


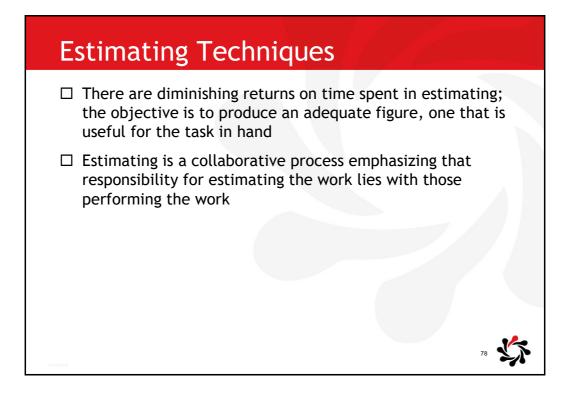


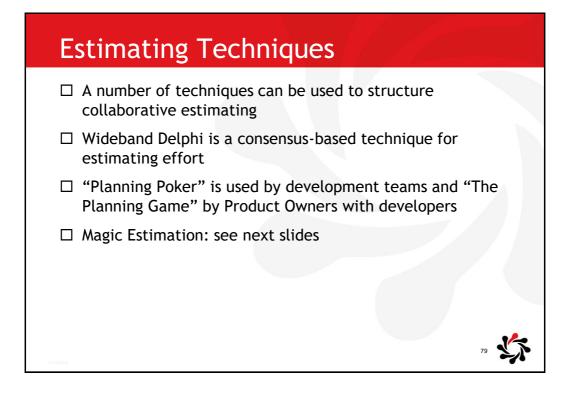


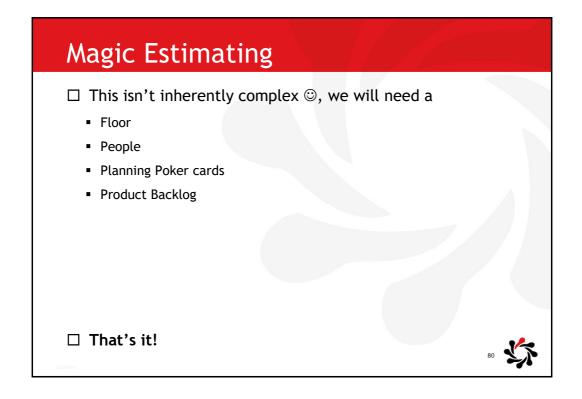


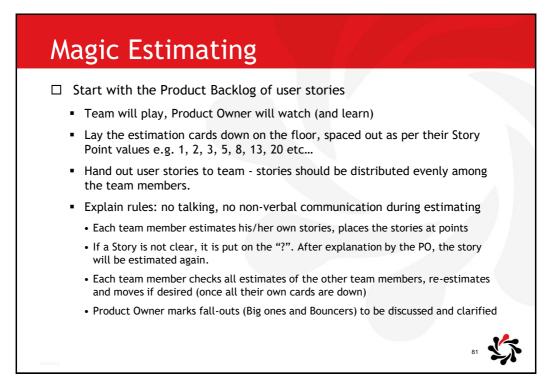


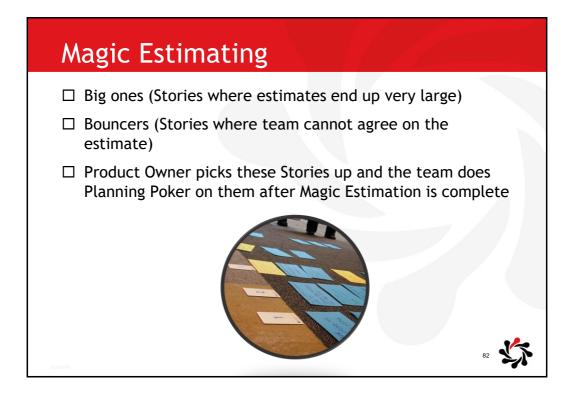


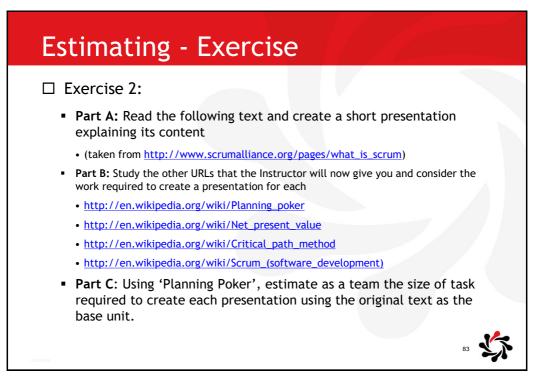


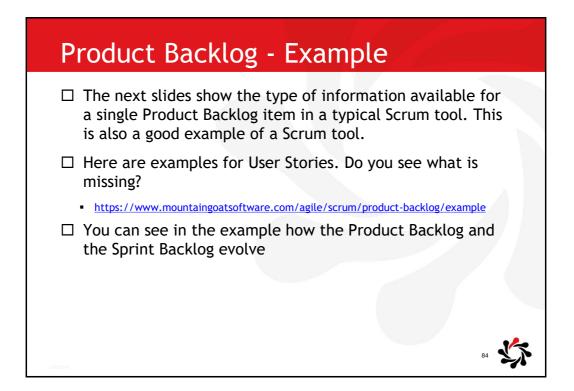


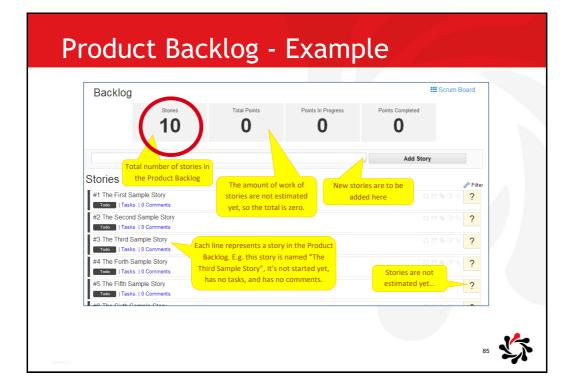






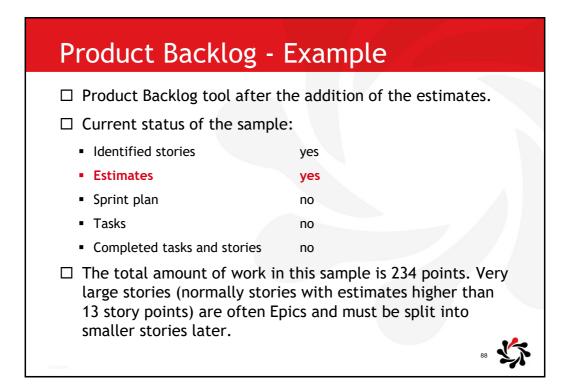


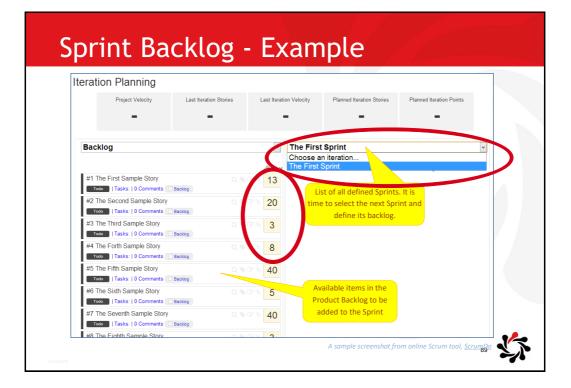




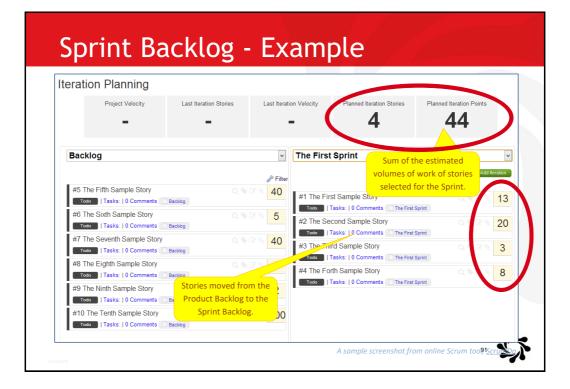
Product Backlog -	Example
Scrum tool. The Product Ov	ct Backlog created in an online wner has identified the stories, vet done (question marks on the
Current status of the samp	le:
<ul> <li>Identified stories</li> </ul>	yes
Estimates	no
<ul> <li>Sprint plan</li> </ul>	no
<ul> <li>Tasks</li> </ul>	no
<ul> <li>Completed tasks and stories</li> </ul>	no
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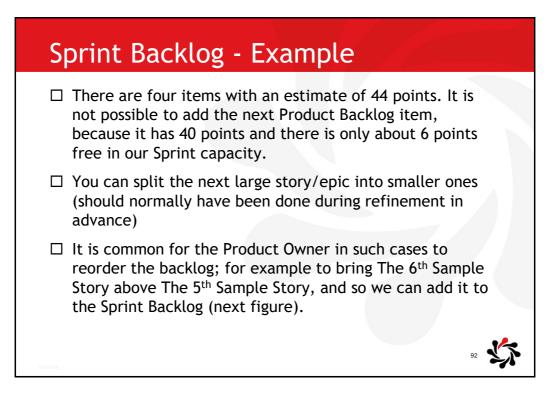
Backlog	$\frown$	III Scrum Board
Stories 10	Total Points Points In Progress Points In Progress Po	0
		Add Story
Stories	This is the sum of the estimated volumes of work of	🎤 Filte
#1 The First Sample Story	Product Backlog items.	Q8%8% 13
#2 The Second Sample Story	Now the volume of wo	Q8 20 20
Todo   Tasks:   0 Comments #3 The Third Sample Story	items are estimated and	
Todo   Tasks:   0 Comments	Estimates for higher ite	
#4 The Forth Sample Story Todo   Tasks:   0 Comments	usually more precis	e. <b>Q</b> ESES 8
#5 The Fifth Sample Story		Q8 8 8 40
#6 The Sixth Sample Story		Q 🕈 🗞 🛛 5
Todo   Tasks:   0 Comments #7 The Seventh Sample Story		Q8888 40
Todo   Tasks:   0 Comments		
#8 The Eighth Sample Story Todo   Tasks:   0 Comments		
#9 The Ninth Sample Story		
Todo   Tasks:   0 Comments		
#10 The Tenth Sample Story		0.00 0 20 100

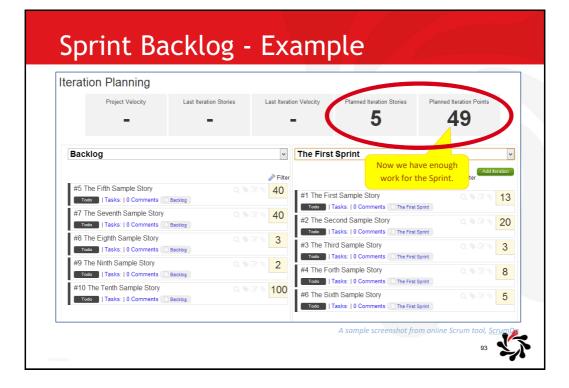




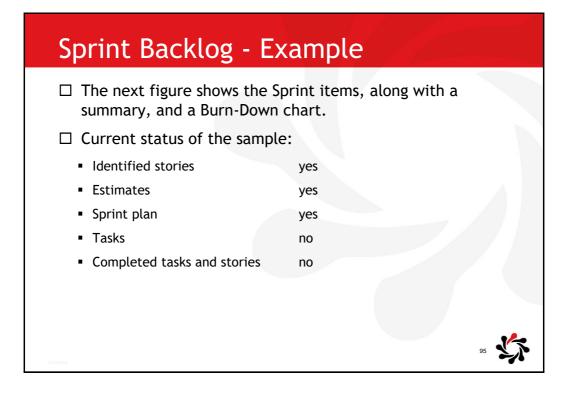
Sprint Backlog - E	xample
•	lanning: a new Sprint, called Team are now ready to select Product Backlog to be assigned
Suppose the estimated tea	m capacity by 50 points/Sprint
Current status of the samp	ole:
<ul> <li>Identified stories</li> </ul>	yes
<ul> <li>Estimates</li> </ul>	yes
Sprint	plan on-going
<ul> <li>Tasks</li> </ul>	no
<ul> <li>Completed tasks and stories</li> </ul>	no 🕫 🎸

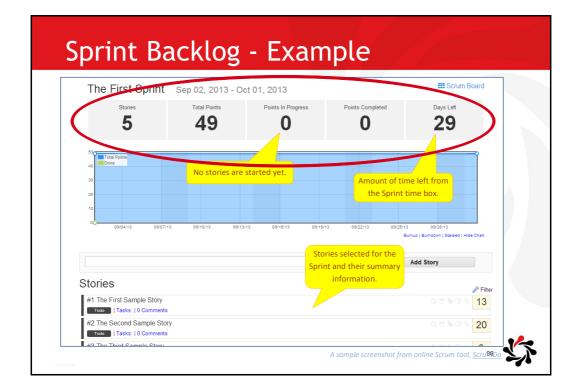






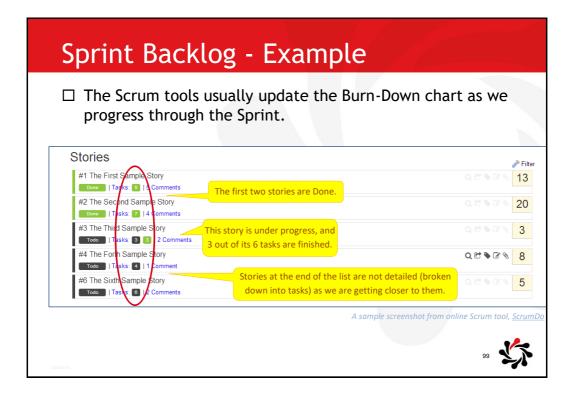
Sprint Backlog ·	- Example	
Current status of the same st	ample:	
<ul> <li>Identified stories</li> </ul>	yes	
<ul> <li>Estimates</li> </ul>	yes	
<ul> <li>Sprint plan</li> </ul>	yes	
<ul> <li>Tasks</li> </ul>	no	
<ul> <li>Completed tasks and store</li> </ul>	ies no	
		1/
		94



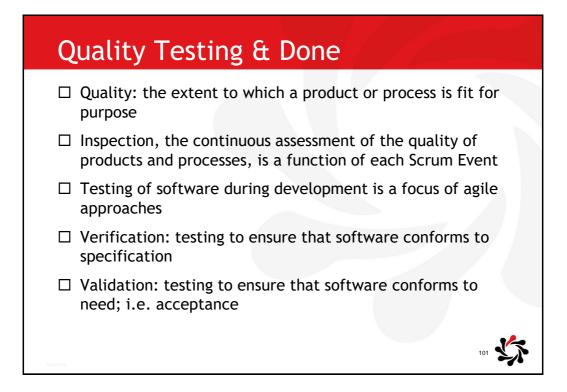


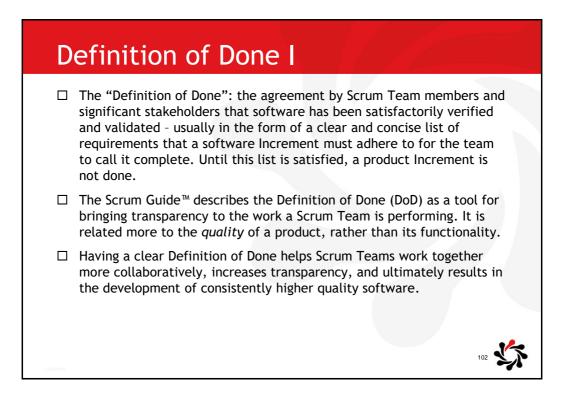
Todo   Tarks: 5   3 comments	
#1 The First Sample Story	
Todo       Tarks: 5   3 comments       #2 The Second Sample Story     Comments are added as	
	C • C •
Todo   Tasks: 7   2 Comments Scrum Team collaborates	
#3 The Third Sample Story O Todo   Takis: 3   0 comments	
NO TASKS are defined for	
Todo       Tasks:   0 comments       #6 The Sixth Sample Story     the future stories yet.	
Todo   Tasks:   0 Comments	

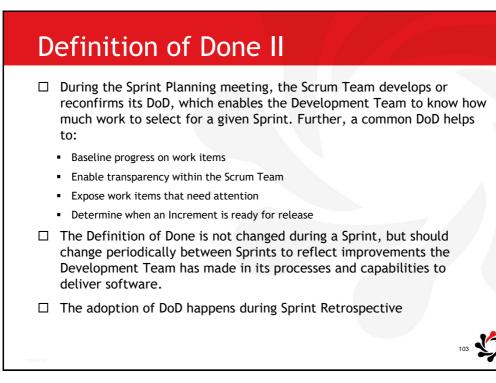
Sprint Backlog	- Example
Current status of the s	ample:
<ul> <li>Identified stories</li> </ul>	yes
<ul> <li>Estimates</li> </ul>	yes
<ul> <li>Sprint plan</li> </ul>	yes
<ul> <li>Tasks</li> </ul>	yes (for some stories)
<ul> <li>Completed tasks and store</li> </ul>	ies no
12/23/2016	98

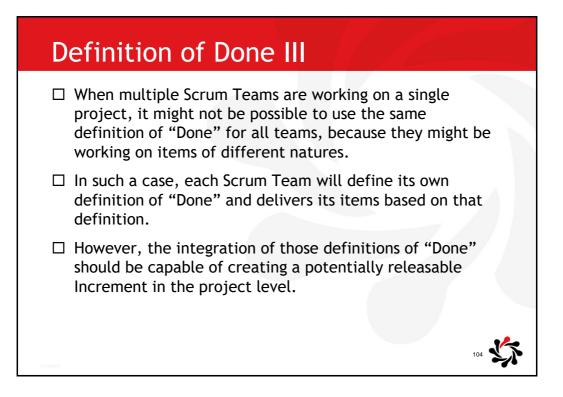


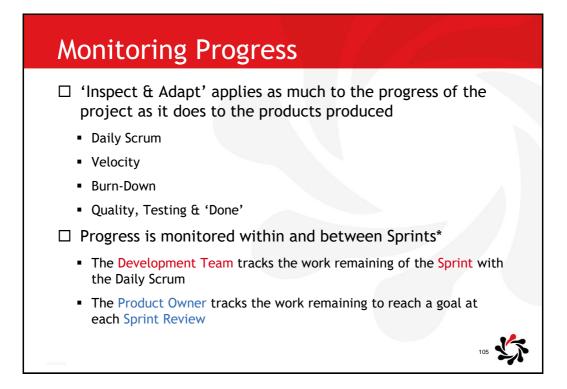
Sprint Backlog - Ex	kample
As we go through the Sprint Done and more items are de	· · · · · · · · · · · · · · · · · · ·
Current status of the sample	e:
<ul> <li>Identified stories</li> </ul>	yes
<ul> <li>Estimates</li> </ul>	yes
<ul> <li>Sprint plan</li> </ul>	yes
<ul> <li>Tasks</li> </ul>	yes
<ul> <li>Completed tasks and stories</li> </ul>	yes (some of them)
	100
12/23/2016	

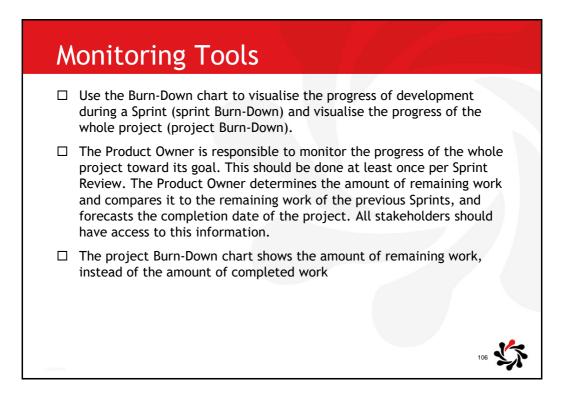


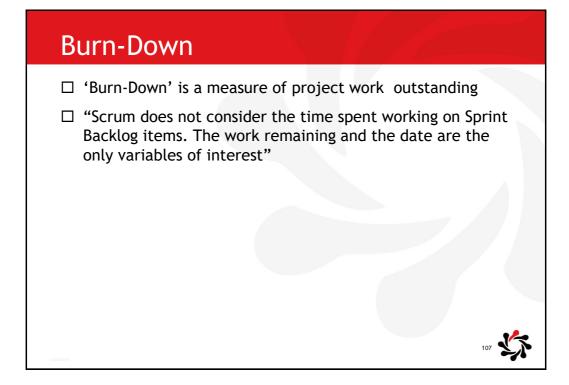


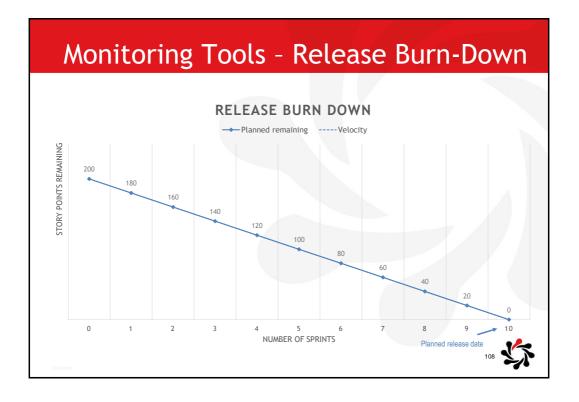


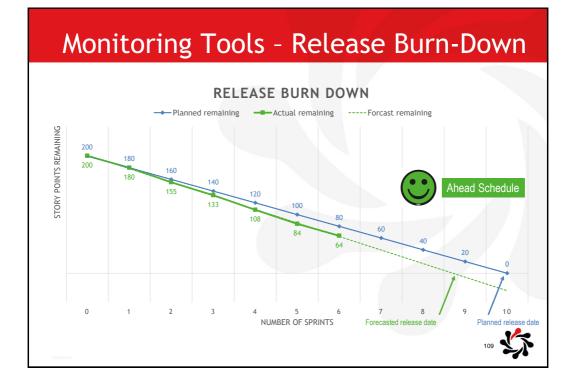


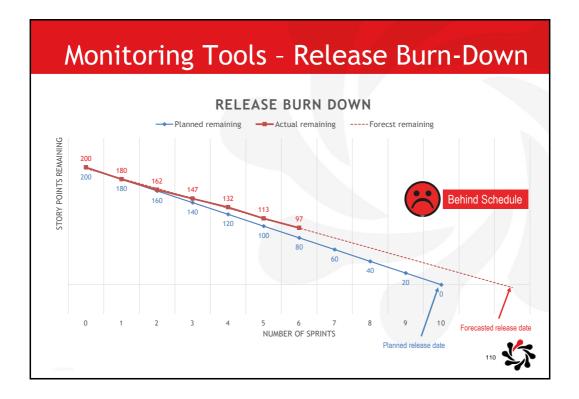


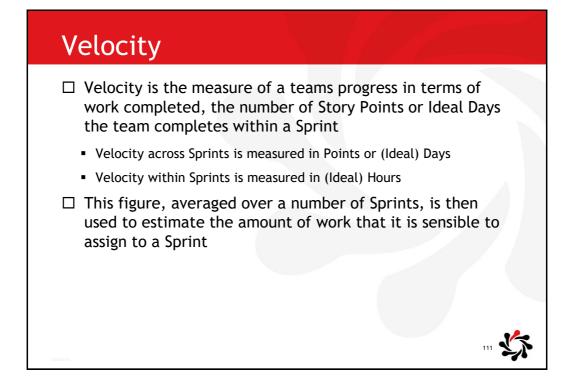


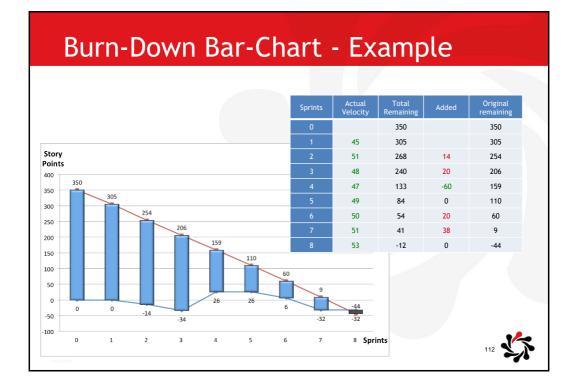


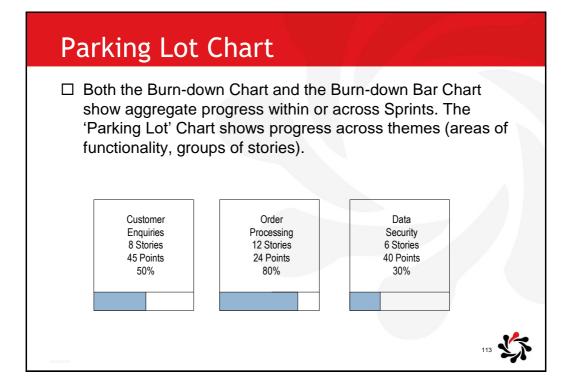


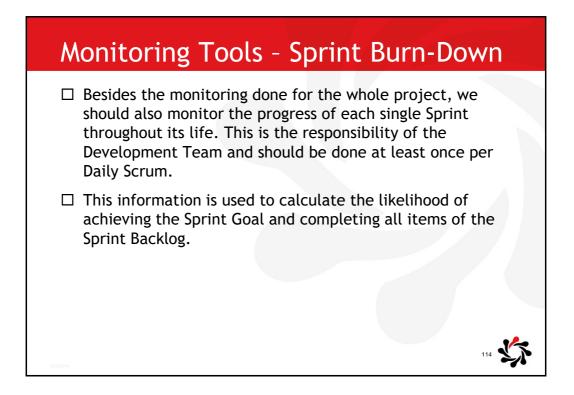


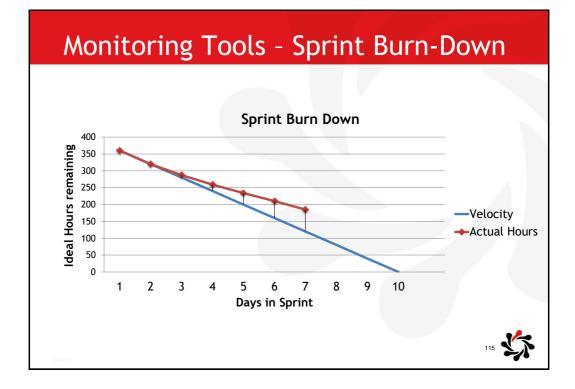


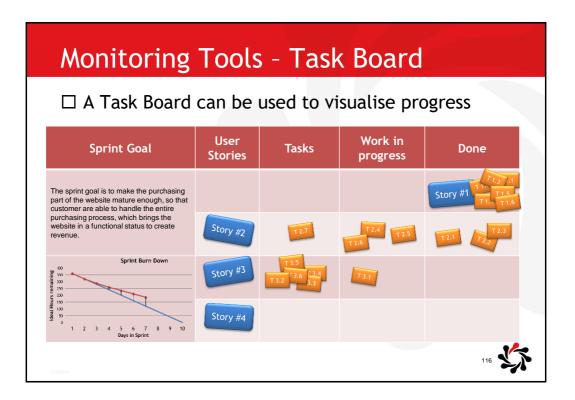


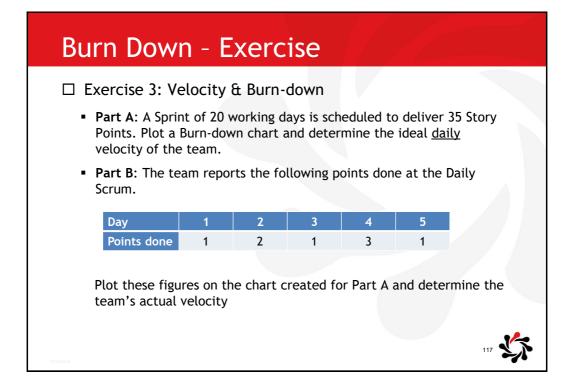




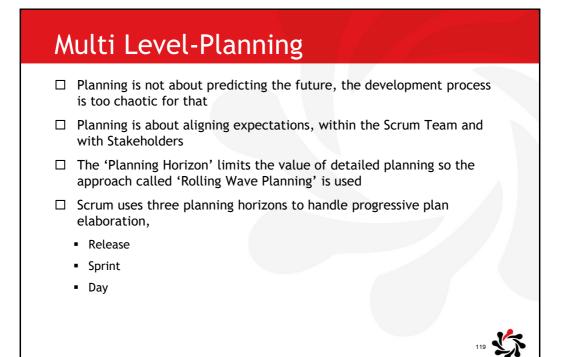


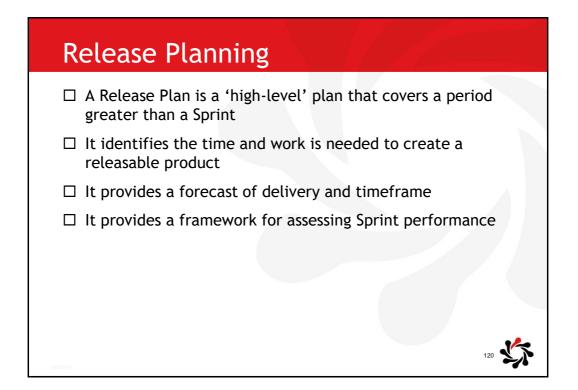


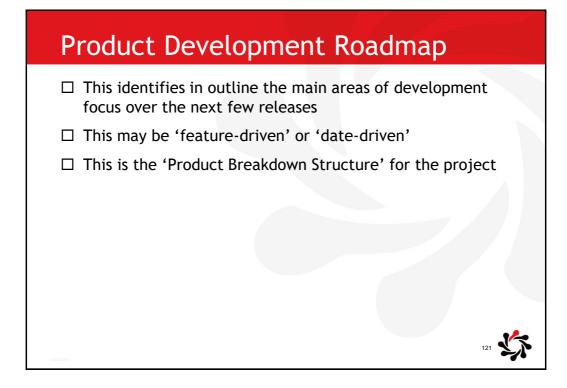


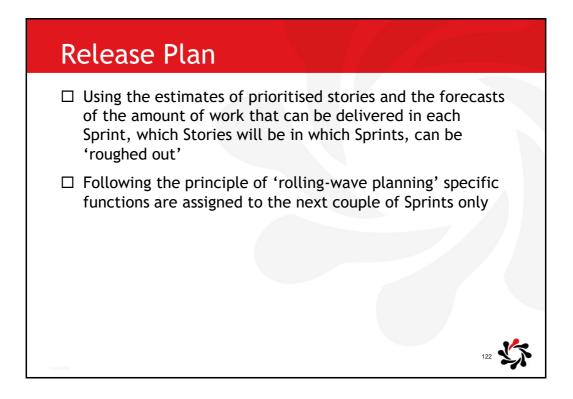


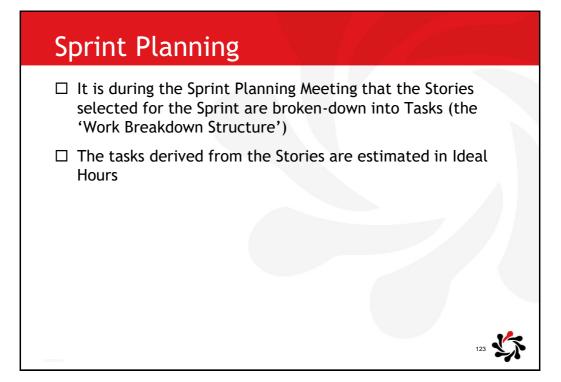
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'Don Prod for p	ne' points pe duct Owner h points have a	er sprint a nas also b	against a been add	i point ta ling point	rget. Un	fortunate	ely, the
S				_	l.		
	Sprint	1	2	3	4	5	
	Points Target	30	28	29	31	28	
Р	Points Done	28	30	25	28	29	
Р	Points Added	6	12	5	4	8	
	the Burn-do rt and detern					Burn-dov	/n bar 118 <b>***</b>

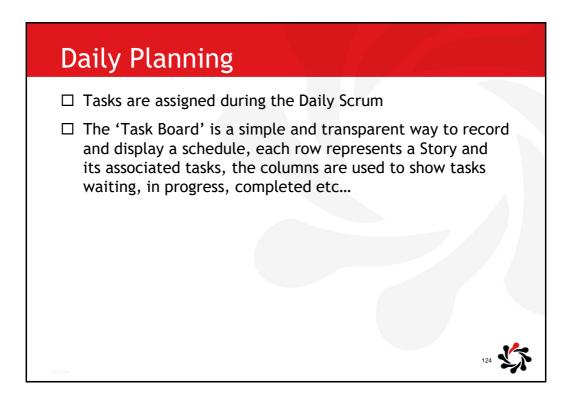


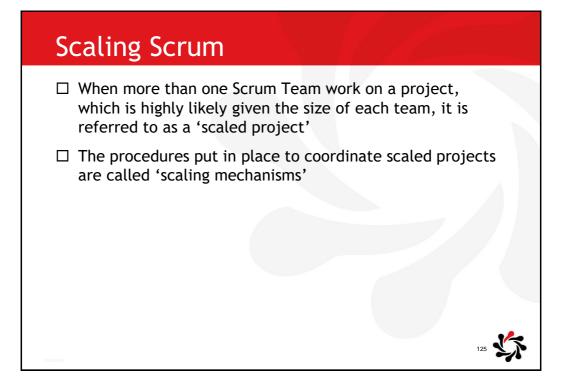


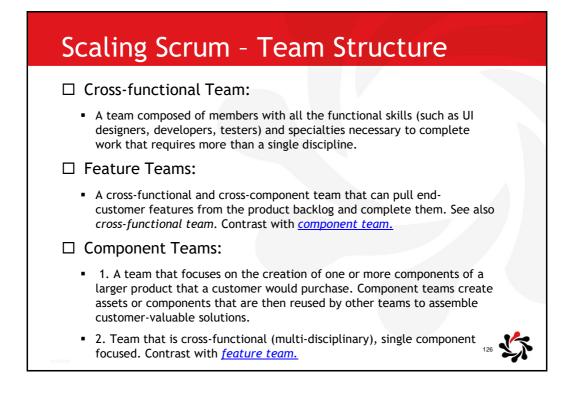


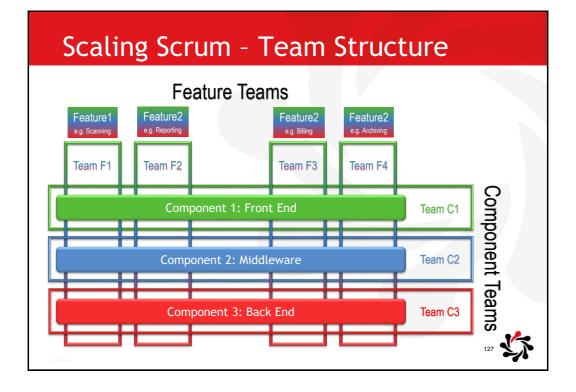


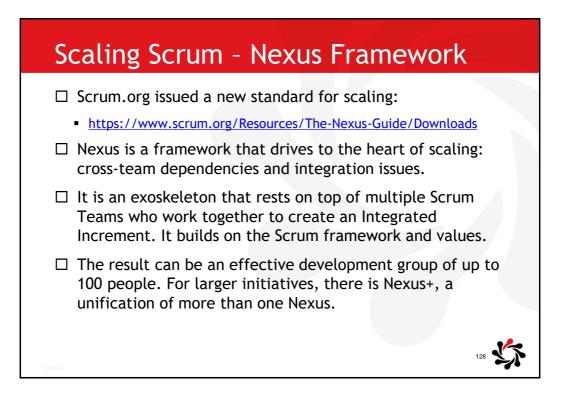


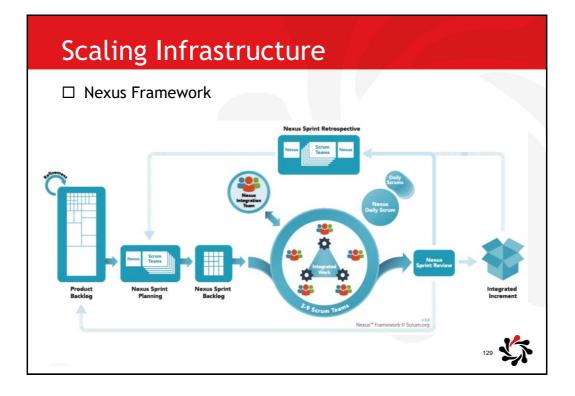


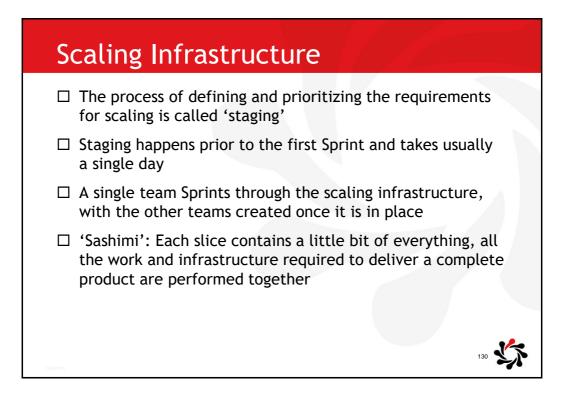


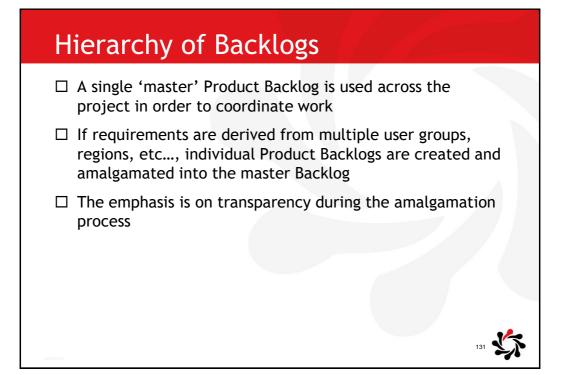


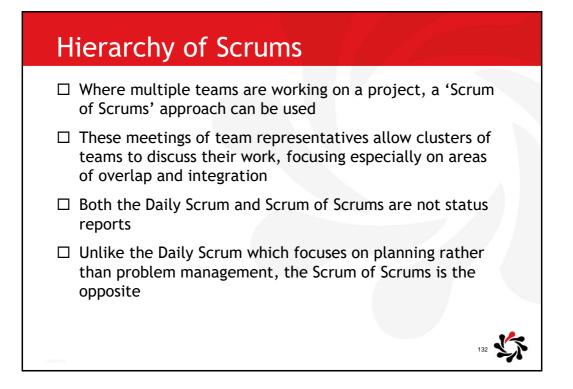












## Scrum Master Foundations

Part Three - Assessments

## Scrum.org Assessments

SCRUM.ORG offer a number of assessments that allow people to check and demonstrate their understanding of SCRUM

- □ We shall use two of these during this course
  - Open Assessment
  - PSM I Assessment
- □ The third assessment (PSM II) is beyond the scope of this course

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