Advanced Topics in Agile Planning Mike Cohn mike@mountaingoatsoftware.com 18 June 2010 © Copyright Mountain Goat Software®

Mike Cohn

- Founding member and director of Agile Alliance and Scrum Alliance
- Founder of Mountain Goat Software
- Doing Scrum since 1995
- Started my career as a programmer; worked as VP Engineering in 4 companies



























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Past velocities

7. 14.23	Historical Data			-	
	Sprint number	Velocity		•	Your estimates
	1	20			
	2	14			
	3	23			
	4	18		•	
	5	25			
	6	30			
	7	12			
	8	22	and the second sec		
	9	15		•	
	10	23			
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The team's estimates

Estimate
20
13
20
13
8
8
3
13





Consider this team								
	Person	Hours/Day	Hours / Sprint					
	Sergey	4–6	40–60					
	Yuri	5–7	50–70					
	Carina	2–3	20–30					
	Т	otal	110–160					
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- If you don't have historical data
 - Take a wild guess, perhaps:
 - +/- 10% for a known team working in a known domain with known technologies
 - +/- 50% if all that is unknown
- If you have historical data from other teams
 - Calculate the relative standard deviation of those teams

	Or, use relative data from others in your company.						
	Team A Team A						
	Sprint Velocity				.		
		20		Mean	Standard		
	2	28			Deviation		
	3	24		22	3.8		
	4	16					
	5	18		Rel	ative		
	6	23		Standard			
	7	26		3.8 / 22 = 17%			
	8	21					
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Track velocity when size changes

lnitial Team Size	New Team Size	Sprint + I	Sprint +2	Sprint +3
6	7	-20%	-4%	+12%
6	7	0%	6%	+15%
7	5	-12%	-8%	-8%
8	6	-20%	-20%	-16%
7	8	-I 5%	Tra	ct across
			the	entire anization.
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The impact of going from 6–7 people							
Initial Team Size	New Team Size	Sprint +I	Sprint +2	Sprir	nt +3		
6	7	-20%	-4%	+	2%		
6	7	0%	-6%	% +15%			
7	5	-12%	-8%	-8%			
					•		
			Sprint		Aver	age Velocity Change	
		A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONT	I			-10%	
		and the second	2		-5%		
			3+			+13%	
					©C	Copyright Mountain Goat Software®	

34×0.9=3	ο					
Sprint	Adjust- ment	Low (34)	Median (39)	High (41)		
I	-10%	>>30	35	36		
2	-5%	32	37	39		
3	+13%	38	44	46		
4	+13%	38	44	46		
5	+13%	38	>>44	46		
Sum		176,00	204.00	213.00		
39×1.13=44				Round down to avoid overstating velocity.		



Upcoming classes in Oslo							
	Date		Ŵ	/hat			
	September 20–21 September 22–23 September 24		Certified Scrum Product Owner Certified ScrumMaster Succeeding with Agile				
November 15–16 November 17–18 November 19		-16 -18	Certified Scrum Product Owner Certified ScrumMaster Succeeding with Agile				
N.M.		Information and registration at v.programutvikling.no	© Copyright Mountain Goat Software®				

