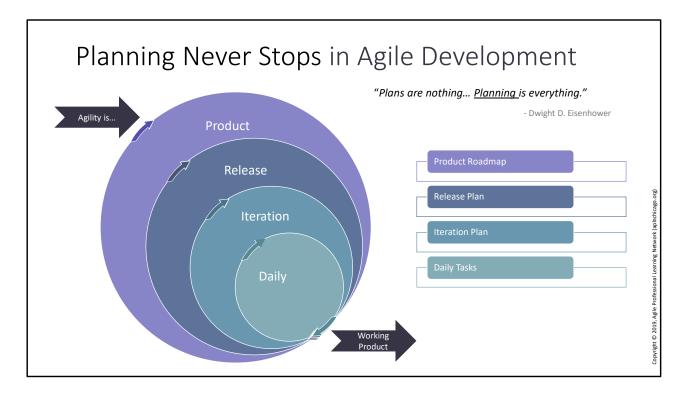
DOWN THE RABBIT HOLE	
	"All too often, the rabbit hole is as deep as you have dug it." - Gary Hopkins Product Roadmap Release Plan
	Literation Plan Daily Tasks

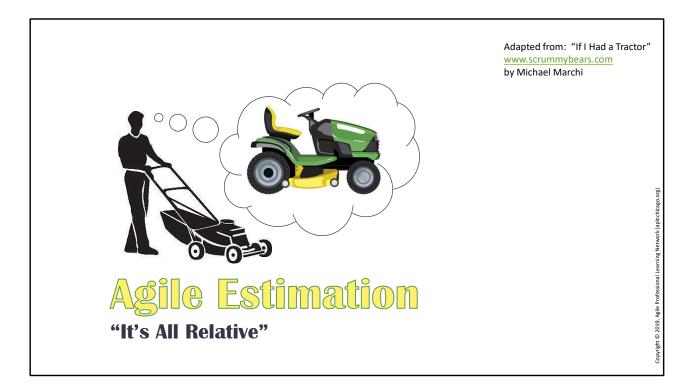
"Down the Rabbit Hole" is a series of estimation seminars covering agile estimation and planning from a very high level (Epics and Features), all the way down to a very granular level (Sub-Tasks).

DOWN THE RABBIT HOLE	– Relative Sizing
	"All too often, the rabbit hole is as deep as you have dug it." - Gary Hopkins
	Product Roadmap Release Plan
	Iteration Plan
	Daily Tasks

This section focuses on something that is fundamental to the discussions of Release and Iteration plans – estimation of work items. Especially SHARED work items.



They say that planning never stops in Agile ...

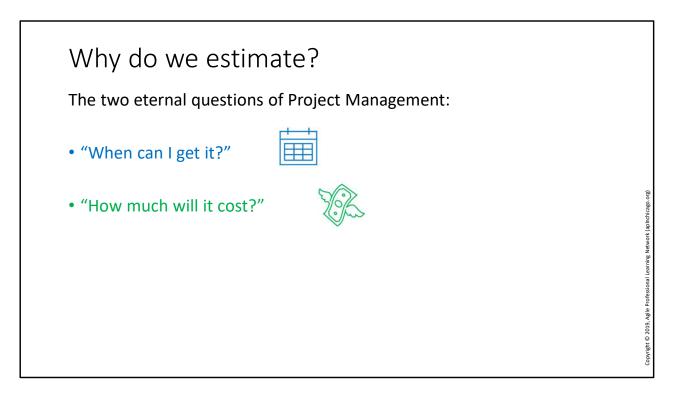


Being able to estimate individual backlog items (usually User Stories) is a key skill that enables us to perform Release and Sprint Planning.

This session focuses on explaining relative sizing and estimation through metaphor – the principal metaphor is that of a Lawn Mowing Service.

This material is derived from Michael Marchi's series of blog articles on Agile Estimation and Planning – in particular "If I Had a Tractor" and the "Agile Estimation Primer" found on his agile blog at https://www.scrummybears.com

The material was developed and presented at the Agile Professional Learning Network (aplnchicago.org) monthly meetups

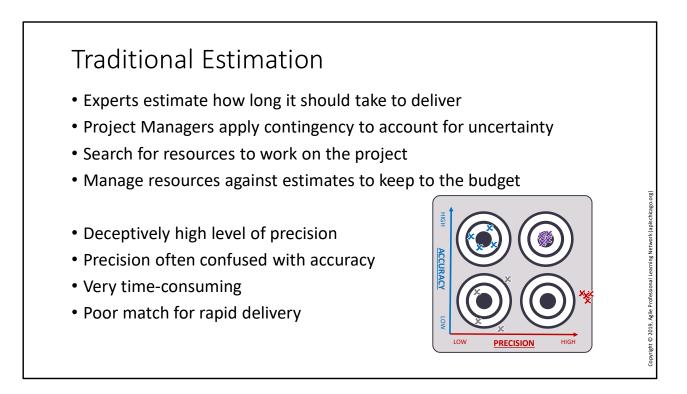


When presented with a new work item, Project Managers are frequently asked for two key pieces of information. When can I get it, and how much will it cost me?

The two concepts are intimately intertwined. As the saying goes, "Time is Money".

What they're really asking you to do, is to predict the future.

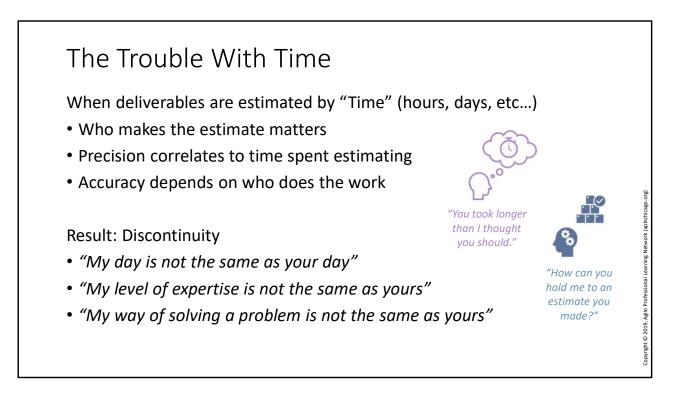
The question is, "How close to reality does the prediction have to be?"



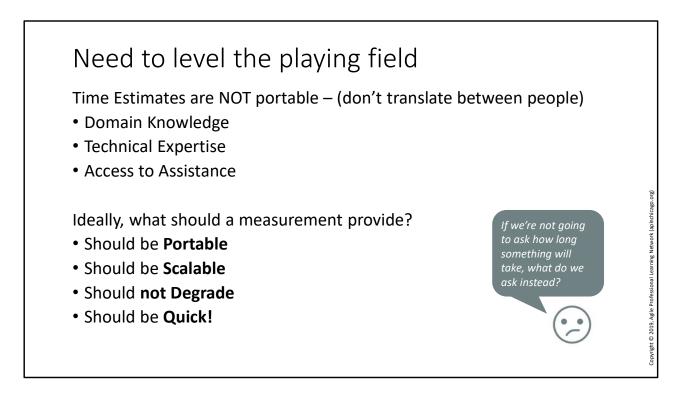
Many organizations attempt to create an extremely high level of precision to their estimates.

No lie, I once saw the estimate for a relatively SMALL project come in at 972 hours. Think about that. That's a lot of hours, isn't it? 972. I could argue that number is very precise. But I question whether it is accurate. The mere fact there is a high degree of precision would imply that a lot of thought went into it, and therefore it has a very small degree of uncertainty.

I just can't help but wonder, could they have invested less time in the estimate, and just called it 1000 hours? That may be less precise, but I would argue it's just as accurate. The two numbers are within 3% of each other, after all!



Estimation in time is a very personal thing, affected all sorts of factors. Who makes the estimate? What is their level of expertise? Are they the person who will do it? Are they distracted? Are they having a good day, or a bad day?

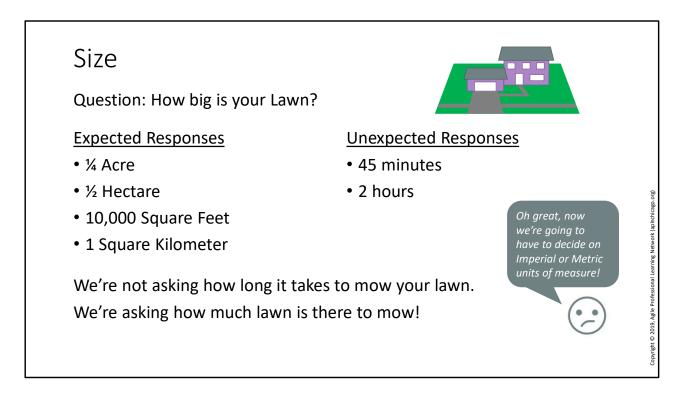


If I were to give two different people the same work item to complete, I will wager that they would not take the exact same amount of time to deliver that work item. I'd even go so far as to say the variance will likely be way more than 3%.

Another thing to consider is that an estimate you make today, is limited by what you know today, not necessarily what you'll know by the time you get to it. We learn and grow constantly.

So even if I was very diligent in my precise estimate of my own future performance, that estimate is inherently ... well ... it's an estimate. It's not an actual.

If we're going to recognize the difficulty inherent in a Precise estimate, maybe we can get just about as good a result by shooting for getting in the right ballpark. A value that is Accurate, but with a lower level of fidelity.

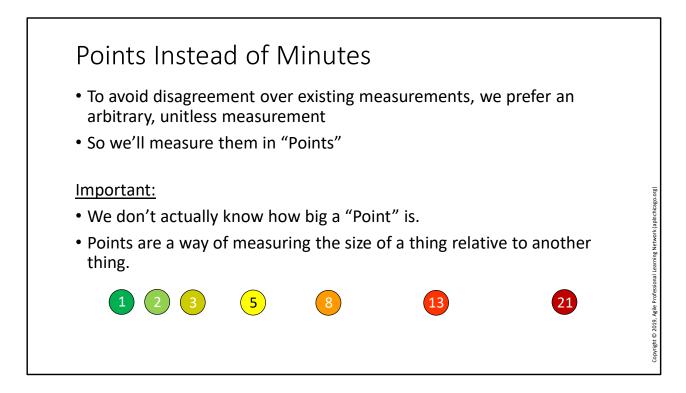


If I were to ask you: "How big is your lawn?", I would get a variety of responses. Many common answers are

- 1/4 acre
- 1/2 acre
- 10000 square feet
- 900 square meters

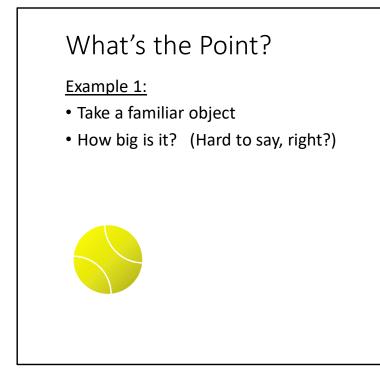
The answer I would not expect to get is "45 minutes".

Why is that? For one thing, I asked for a size estimate, not a time estimate. Yet, all over the globe, if I ask a software developer or project manager to estimate the size of a feature, they will generally answer in a number of hours, days, weeks, months, etc.



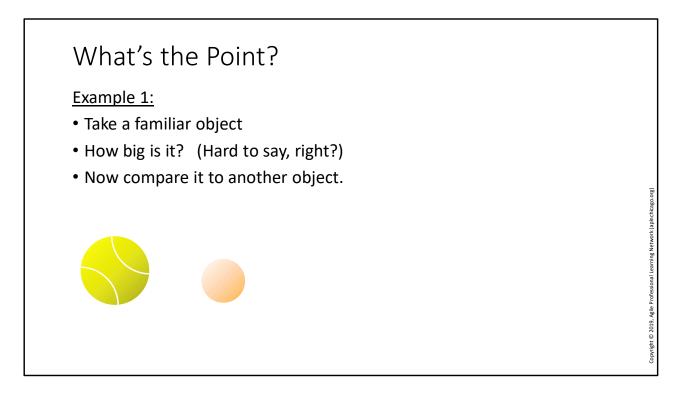
One popular measurement technique is to apply a modified Fibonacci sequence to estimate sizes.

Each number in the Fibonacci sequence is equal to the sum of the two previous values, creating larger and larger gaps between values as you proceed. (We'll explain why in a minute)

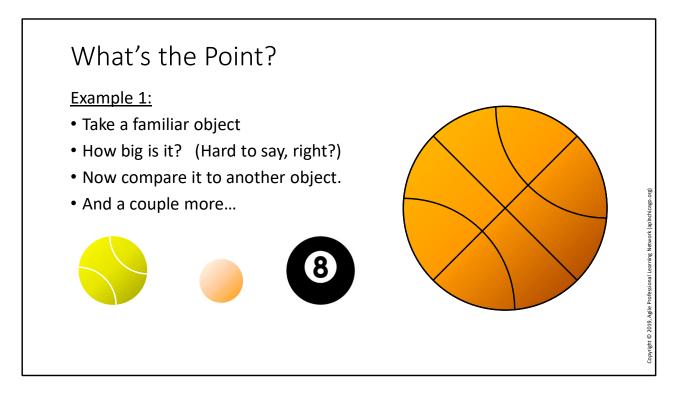


What is a thing's relative size?

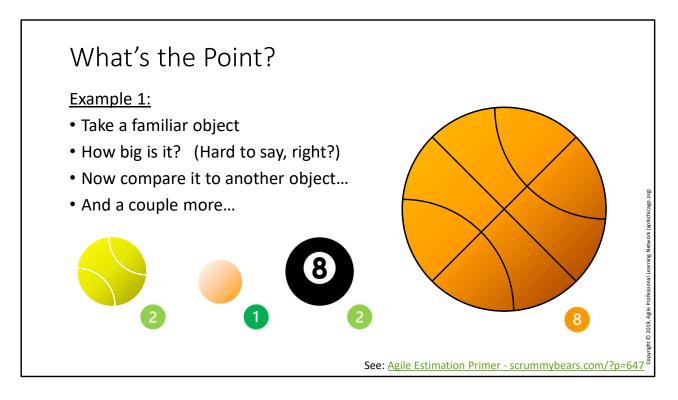
Copyright © 2019, Agile



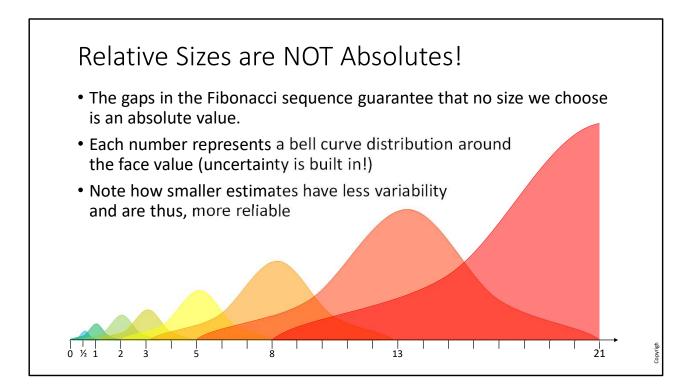
When you do relative sizing, you are comparing things to each other. You don't need to know an exact value for the size of a thing to be able to say whether it is bigger, smaller, or about the same size as another thing.



On this slide you can tell the ping-pong ball is smaller than the tennis ball. You can tell the billiard ball is bigger than the ping-pong ball, and the basketball is bigger still. But if you look a little closer, you can also probably say that the billiard ball and the tennis ball are very similar in size. Maybe not PRECISELY the same, but pretty darn close!



Since the ping-pong ball is the smallest of the items, you could arbitrarily assign it to represent "1 point". So now look at the tennis ball. Is it bigger than the ping-pong ball? How much bigger? Maybe twice as big? Therefore, the Tennis and Billiard balls are both "2 points". And the basketball looks to be at least 4 times the diameter of the tennis ball, so let's call it "8 points".

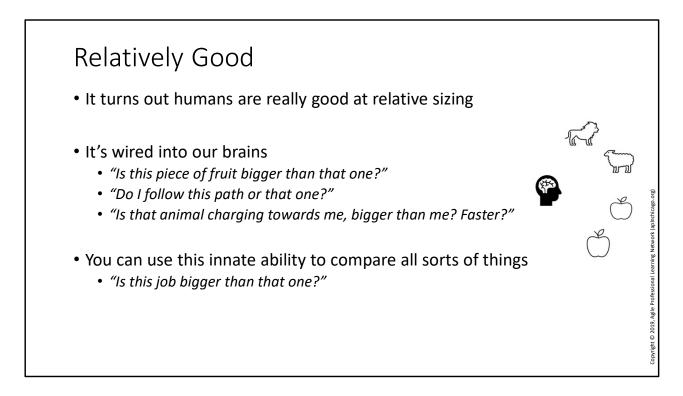


When we say that something is around the same size as a ONE, or something else is twice that size, we're not talking about an absolute valuation. Each Fibonacci estimate actually represents a range of values, with the bulk of things estimated at that value congregating around a certain dimension.

This should help ease your mind about relative sizing. It's okay (and even expected) that you may be wrong, and the bigger your estimate, the more wrong you are likely to be!

Teams that have been estimating for a while, start to realize they will generally (comfortably) deliver stories below a certain point value, and at the same time tend to struggle to reliably deliver stories above another point value. This information can be used to calibrate estimation!

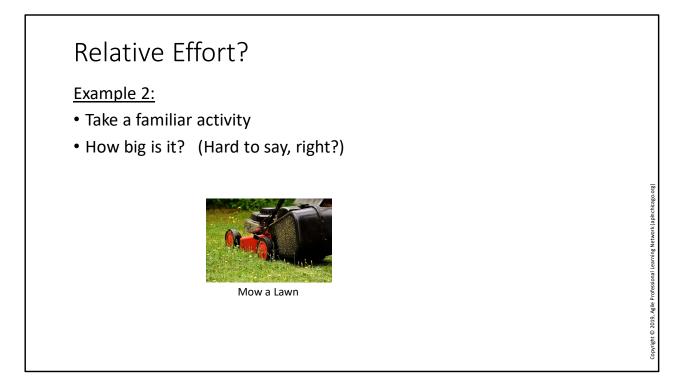
For example: The fact that there is a bell of uncertainty around any value means that even if you sometimes succeed at delivering a "13" in a sprint, you probably fail an equal amount of the time. There would then be a strong argument to be made that a 13 is the absolute upper limit of any story you COULD take into a sprint, but because of the danger of not delivering, you would NEVER take on that risk, so you would cap the largest story you would consider bringing into a sprint at 8 points.



We are actually, really good at relative sizing. You've been doing it since you were born. It's an inherent survival instinct.

Anyone who has siblings can remember arguments about whose piece of cake was bigger than whose.

Let's leverage that instinct.

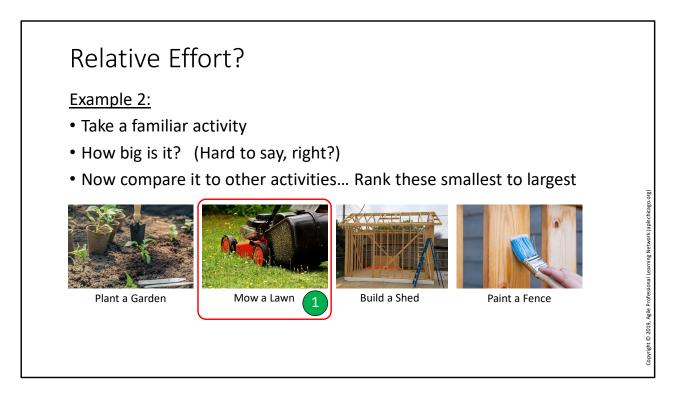


The work we do is rarely as simple as the ball-sizing example would imply. Even the simplest of household chores have multiple layers of activity and complexity.

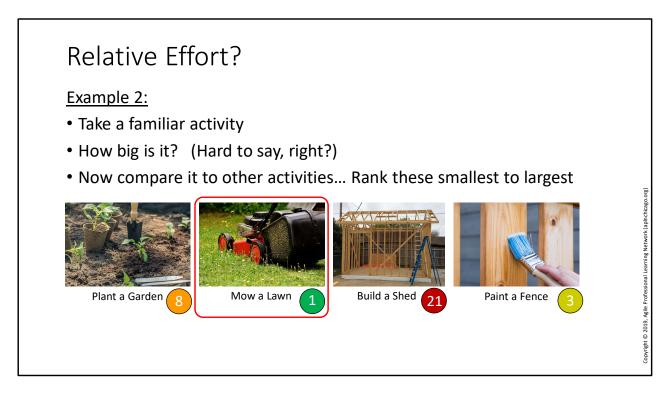


Look at these more complex examples. First, start by ranking them in effort and complexity from the simplest to the hardest.

Then consider how big they are RELATIVE to each other.

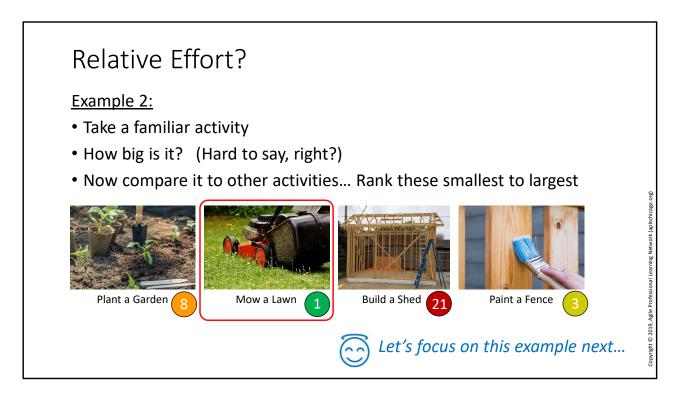


As with the ball example, we need a frame of reference. So let's take the smallest one and arbitrarily declare it to be our baseline (1-point) activity.



Remember, don't think in terms of time. Consider the work involved. The complexity of the tasks necessary to complete it. The degree of care you need to employ to do a good QUALITY job.

This is where that Fibonacci sequence is going to come in handy!



[animated] (replaces the 4 previous slides)

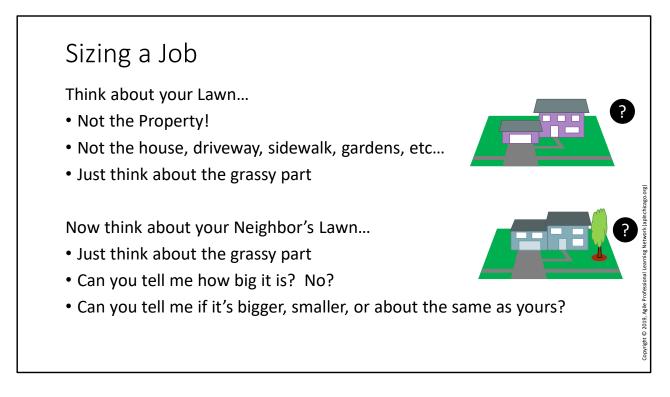
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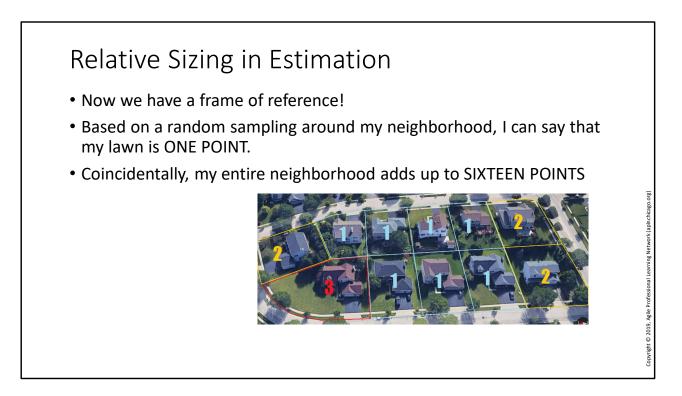
This is a huge leap. Can you visualize two complex objects and give me an answer?

The truth is, I'm playing the odds here. Many of you are probably in neighborhoods where the lots are uniformly sized. If you compare relative sizes, and they come up pretty equal, that's not helpful. The devil is in the differences.

Of course, if all the things you need to estimate are really similar, then relative size is unimportant. Call them all "Ones".



I'm going to establish an arbitrary starting point now. Based on my understanding so far, my yard and my neighbors' are all 1 point yards, the corner houses have 2-point yards, and the odd-shaped yard a 3-point yard. The chief advantage at this point, is this measurement was FAST. Not a lot of time spent agonizing over it. It was a quick 1,2, 3 and we're ready to move on.



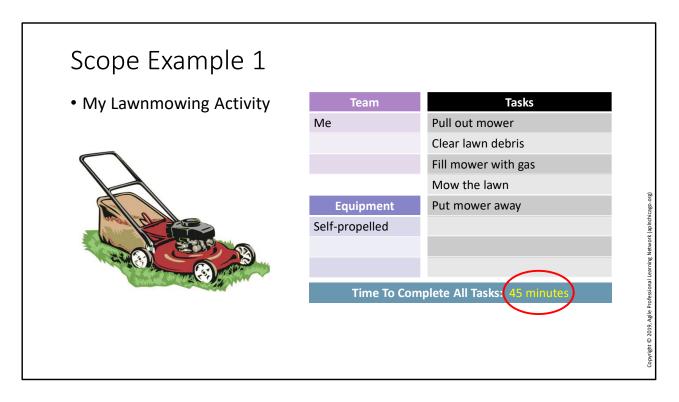
All of the lawns on my block add up to 16 total points. What does that mean?

You don't have enough information to ascribe meaning to that ... yet.

Using Size in Agile	
<ul> <li>In Agile, as in your real-life activities, you usually do not limit yourself to a single chore per iteration</li> </ul>	
<ul> <li>In Agile frameworks like Scrum, we have fixed-duration (time-boxed) iterations called "Sprints"</li> </ul>	
For our Lawn Mowing example: • Sprint Duration: 1 weekend (2 days)	Copyright © 2019, Agile Professional Learning Network (aphrchicago.org)
<ul> <li>Sizes help you figure out how much work to bring into a sprint</li> </ul>	Copyright © 2019, Agile Profession

In Scrum, we allocate timeboxes of activity called "Sprints", and try to forecast how much work we can accomplish within that timebox. Estimation of relative Effort can help us figure out how much work to bring into a sprint, by looking at how much we've accomplished in past iterations.

For the ensuing examples, just because we're homeowners with other jobs, we can only work on maintaining our homes on the weekend. So Let's say that each Sprint in our homeowner backlog is 2 days long (Saturday and Sunday).



Meet my team. Er... Me. I have a relatively simple, self-propelled lawn mower. For me, mowing the lawn had a relatively simple definition of done: "All the grass is cut to a uniform length." No frills. No drama. Simple.

Remember, I have decided that I have a one-point lawn. It HAPPENS to take me 45 minutes to mow the lawn...

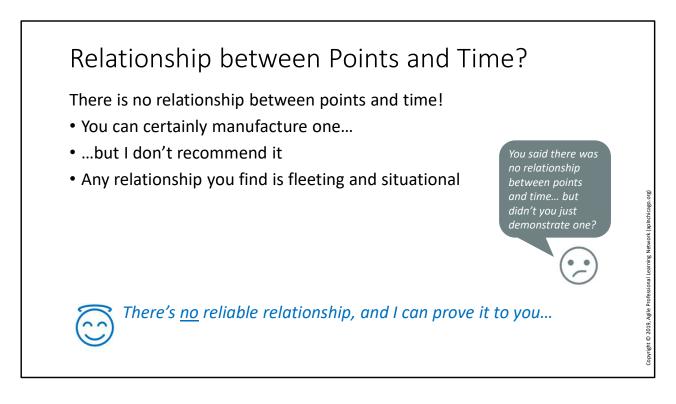
Estimating Capacity	
I have enough data guess how much work I can accomplish in a single Weekend/Sprint	
<ul> <li>I consider the amount of effort that goes into mowing my lawn, and I focus on a reasonable number of similar lawns I could do while maintaining quality and not burning myself out:</li> </ul>	
( <i>I think</i> ) <i>I can do</i> $\approx$ 12 points per sprint	
<ul> <li>I look at the average number of points I have delivered over the last few sprints, and assuming nothing else changes:</li> </ul>	an Inchicago, org)
<i>I can do</i> $\approx$ 12 points per sprint	Network (
<ul> <li>The Project Managers out there probably have another answer for me. They probably would like to calculate it:</li> <li> <u>16 hrs per sprint</u> <u>16 hrs per sprint</u> <u>175 hrs per point</u> <u>21 points per sprint</u> <u>Don't Ever Do This!         </u> </li> </ul>	Coovrient: © 2019. Aelie Professional Learning Network (anthchicaeo.org

In the agile world, Capacity has a slightly different meaning than it does in traditional Project Management.

A team will forecast their capacity (their ability to do quality work) based on a number of factors. We want this to be something that they have a hand in defining.

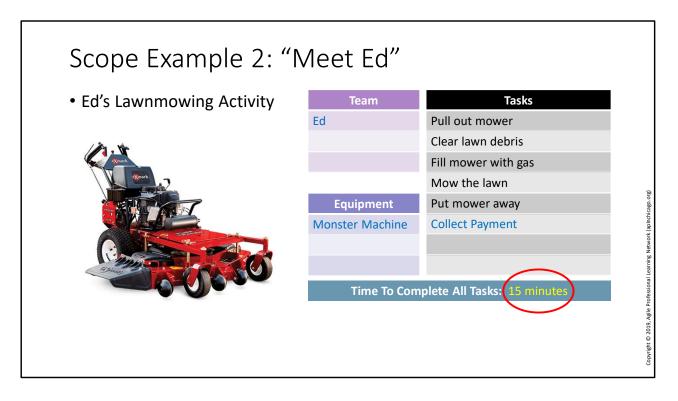
Traditional Project Management would tell the team members how much time they have available to perform their work and set the expectation that the team members will fill that time 'working'.

Given what we know so far, can you think of why this is a dangerous practice?



The skeptics among you are going to find this statement to be difficult. I pretty much just told you it takes me 45 minutes to mow my 1-point lawn. So, why is it wrong to look at available time as a way of estimating capacity?

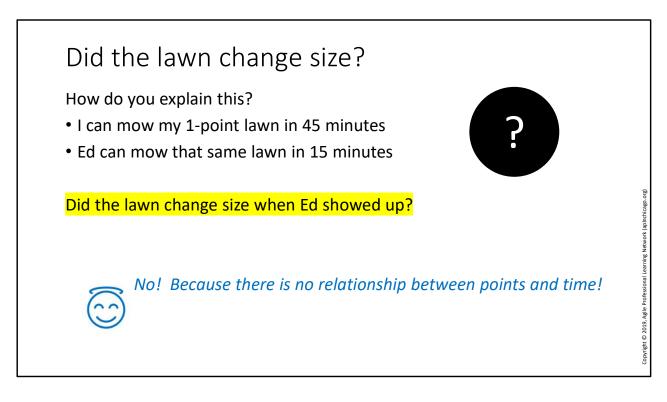
Trust me, it's a bad practice. And I'll prove it to you.



A few years ago, I hired someone to mow my lawn for me. Don't judge. It was a rough summer, and I just needed a little help. Besides, once you hire these guys, they keep showing up to do their job. (weird)

Anyway, "Ed" has one of those big, zero-turn radius monster machines. The kind with a little wheeled step-pad on the back, so you can glide along behind the mower while it does all the work.

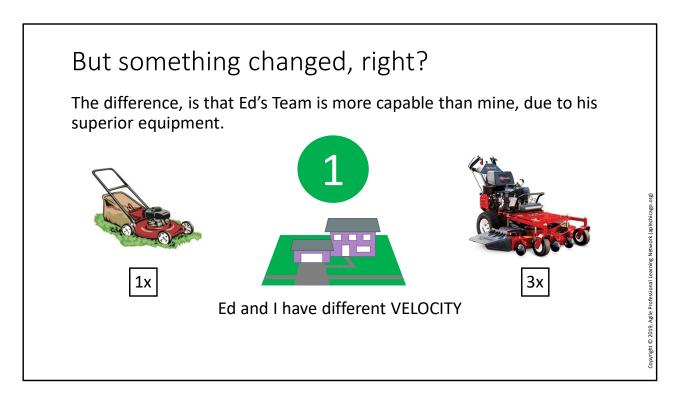
Get this: Ed pulled that bad-boy off his trailer, mounted up and mowed my entire lawn in only TEN MINUTES. He then loaded it back onto the trailer, came to the door, and collected his payment. From arrival to departure, he was done in 15 total minutes.



Which begs the question: Did my lawn change size?

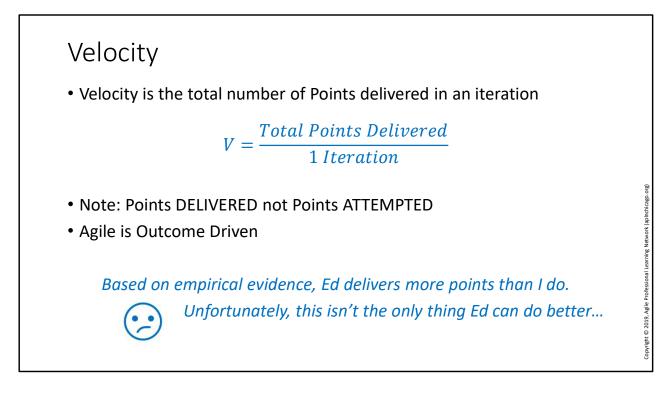
No, of course not!

As we've already established. Our estimation model using Points is designed to reinforce that there is not a relationship between Points and Time.



Just because Ed can finish the lawn faster than I can, doesn't mean the lawn changes size. It is in fact, still the same 1-point postage stamp it always has been.

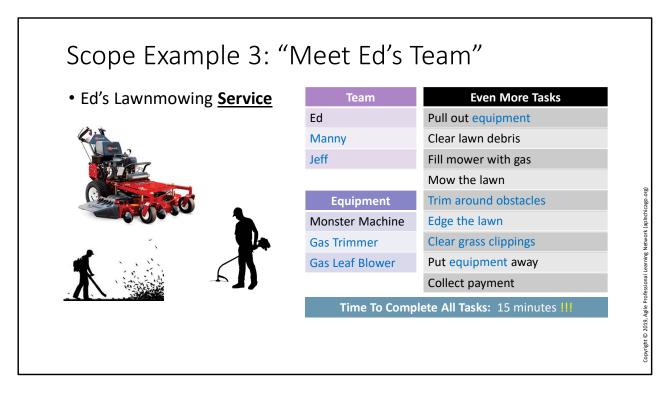
The difference is that Ed is capable of doing more lawns like mine in the same time it takes me to do mine. Almost 3 times as many!



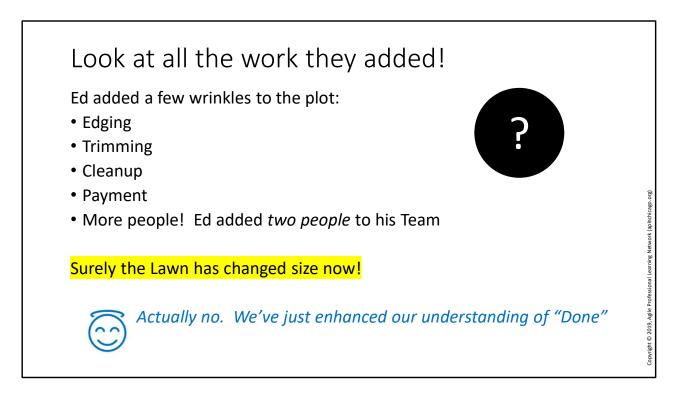
Capacity was a forecast of capability. It represents how much work a team thinks it can accomplish in the next iteration.

Velocity is more meaningful. It represents how much work the team actually accomplished during that iteration. It is a lagging indicator based on OUTCOMES.

In terms of mowing, Ed DELIVERS far more work than I do. That's bad enough. But unfortunately for me, it's not the only thing Ed does better...

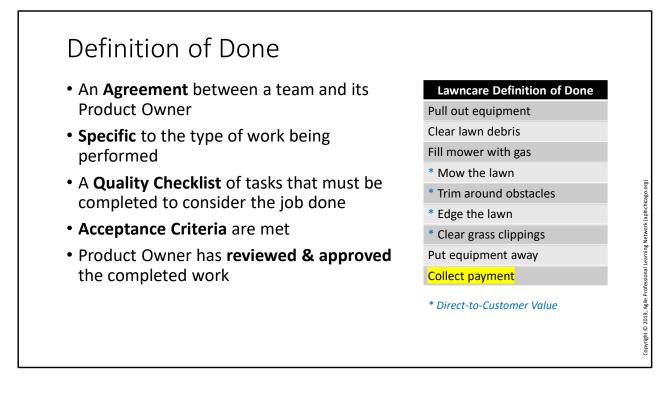


Ed didn't come alone. Ed brought friends. While Ed is out Mowing, Manny and Jeff are out trimming the edges of the lawn and cleaning up debris. They are adding additional services that I haven't been doing. And despite the extra work, Ed's team still completes the entire exercise in only 15 minutes of clock time.



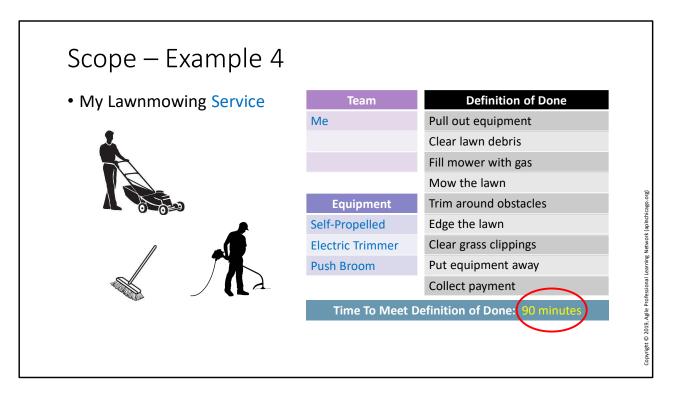
Given all this extra work, and considering there are more people necessary to complete it, surely the size of the lawn has changed now.

It has NOT changed size. Because Ed's team performs that same level of service for all the lawns they mow. This is a consistent level of effort, therefore the estimate does not need to change!



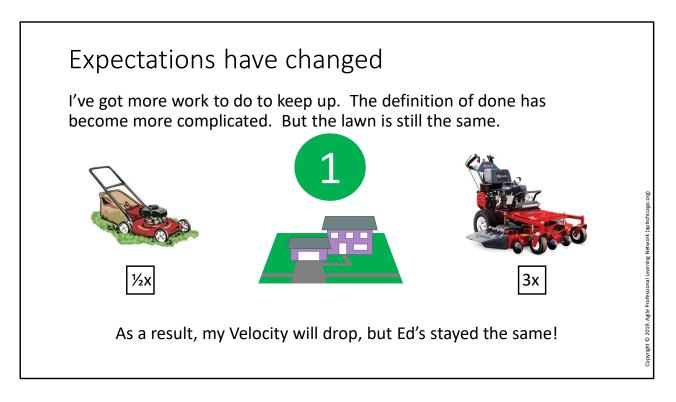
The introduction of Ed's team into the mix has enhanced our understanding of what it means to do a quality job. In agile, we enumerate these standard practices that apply to all work done by the team. We call that quality standard, "Definition of Done".

When an agile team declares work to be "Done", we can be assured that they have taken these standards into account.

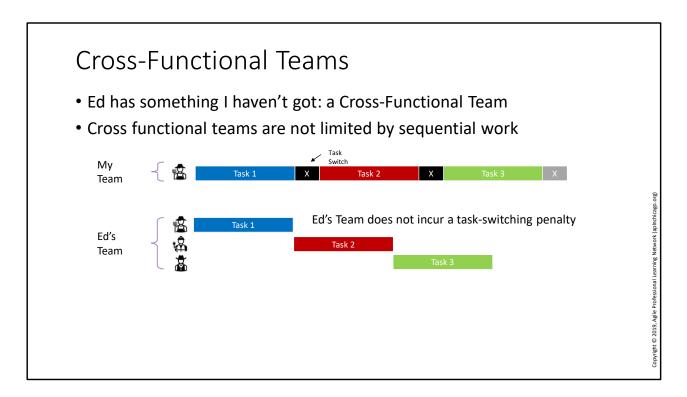


So now, I have a problem. The rules have changed. The definition of a QUALITY JOB has been enhanced. In order to stay competitive, I will need to meet the standards set by Ed's Definition of Done.

Unfortunately, my team is still just one person, and I don't have nearly as advanced tools as Ed's team has. It now takes me longer to mow my lawn (because mowing is just the first step, followed by trimming, followed by cleanup).



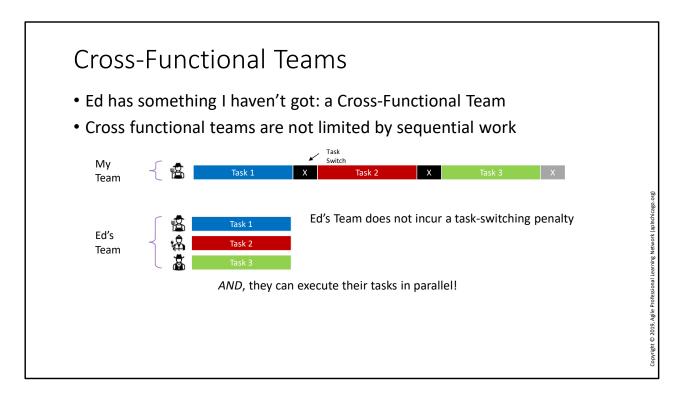
The lawn hasn't changed size. The expectations of what constitutes a quality job has changed. I therefore will get fewer lawns completed in each sprint. My VELOCITY will change. It will go down.



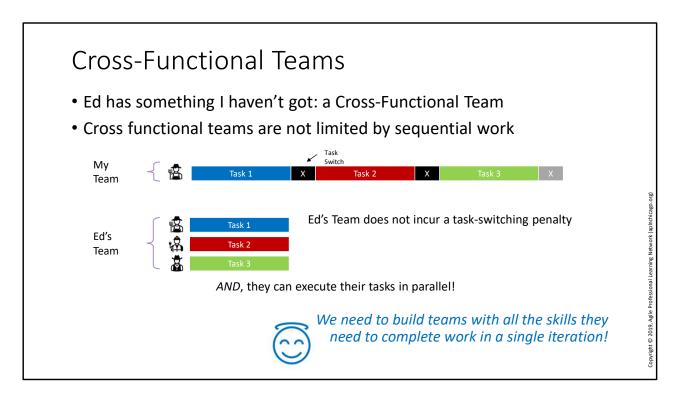
The more complex the Definition of Done gets, the more benefit you see from a cross-functional team.

Look at the impact all this work (plus the task-switching penalty) has on my performance. I'm the only one on the team, so I have to do it all.

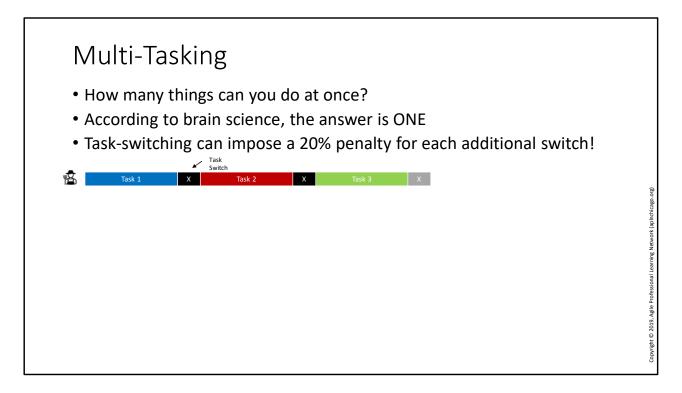
Whereas Ed, Manny and Jeff divide and conquer, and don't even have to switch tasks so they don't pay a task-switching penalty!



...and even better: Because he has three people, they have the opportunity to execute their individual tasks in parallel. Something I cannot do myself – *at least not without hurting myself.* 



This is a great argument for working more efficiently by building cross-functional teams!

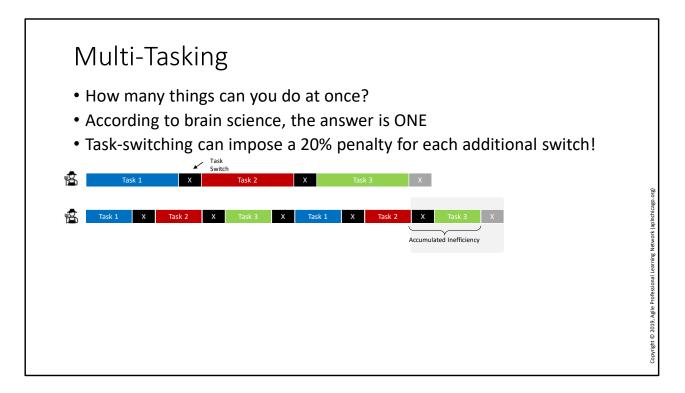


Multi-tasking is a myth.

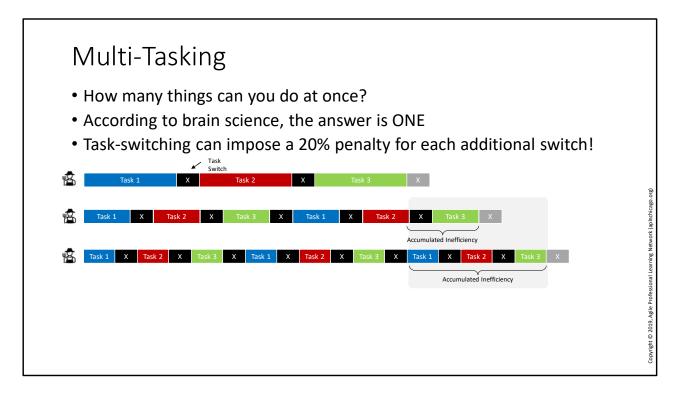
Your brain can only focus on ONE complex task at a time. In order to present the illusion of multi-tasking, your brain has to rapidly switch between tasks.

Task switching is a terrible thing.

It's not free. There is a cost in productivity that you pay every time your brain saves and unloads one complex task, then loads the next. Conventional wisdom says task-switching can rob us of 20% of our productive time. It's simply lost. The more you switch back and forth, the worse it gets.



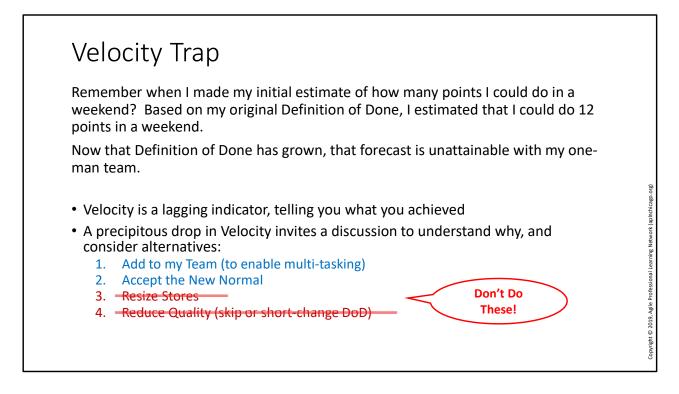
For instance, if I were to multi-task by dividing my lawn-mowing activities between the front yard and the back yard. That is, finish the entire front yard mowing, trimming and cleanup before moving to the backyard. With the task switching, I'll incur a penalty – the second way will take longer than the first way.



It gets even worse if you try to break it up more. I might feel better while I'm working the third way, because I can see all the tasks progressing a little bit throughout the job, but I'm paying that penalty over and over and over again. That is wasteful. It's not efficient!

Multi-Task	ing
<ul> <li>According to b</li> <li>Task-switching</li> </ul>	ngs can you do at once? rain science, the answer is ONE can impose a 20% penalty for each additional switch!
Task 1 X	Task 2     X     Task 3     X       X     Task 3     X     Task 1     X     Task 2     X     Task 3     X       Accumulated Inefficiency     Accumulated Inefficiency </td
Task 1   X   Task 2   X     Task 1   X   Task 2   X     Task 1   Task 1     Task 2     Task 3	X       Task 3       X       Task 1       X       Task 2       X       Task 3       X         Task 3       X       Task 1       X       Task 2       X       Task 3       X

Meanwhile, Ed's cross-functional team doesn't suffer any penalty at all. Now we can clearly see why Ed can do the same 1-point job in so much less time. And we can understand why we don't have to change the point estimate based on which team is executing the work. The 1-point job isn't finished until all the tasks are complete.

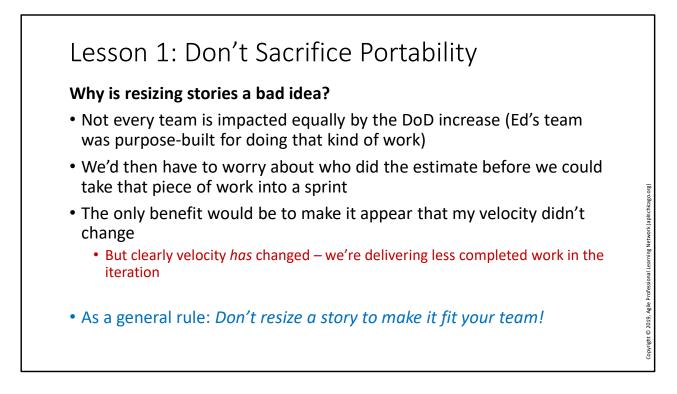


A velocity trap occurs when you decide that Velocity is a metric that must be met, rather than an indicator of how things are going.

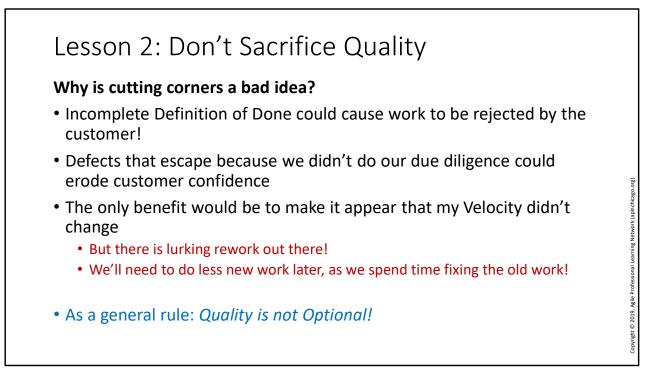
The urge to adjust estimates or skip steps in the Definition of Done in order to maintain velocity can be strong – especially in teams/organizations new to agile.

If something happens that causes a drop in Velocity (or an increase!), we want to see that so we can talk about it, and decide what (if anything) we can do about it.

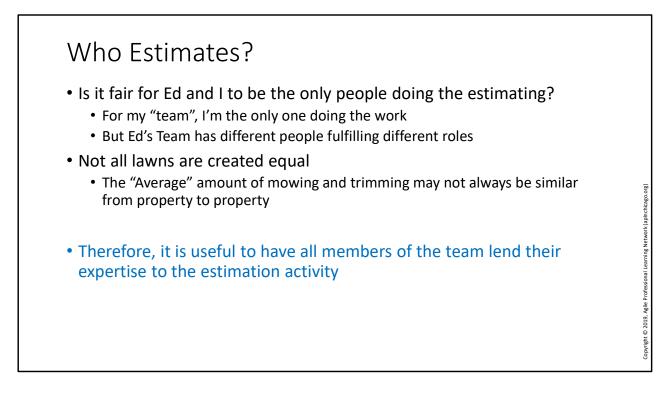
We do NOT want to disguise it.



When I made the estimates of the relative size of the lawns on my block, I based that on the relative effort of each job compared to the effort of the others. Yes, there is more to do, but there is more to do across ALL THE LAWNS. The scope of the work increased, but the ratio of the amount of work is still relatively constant.



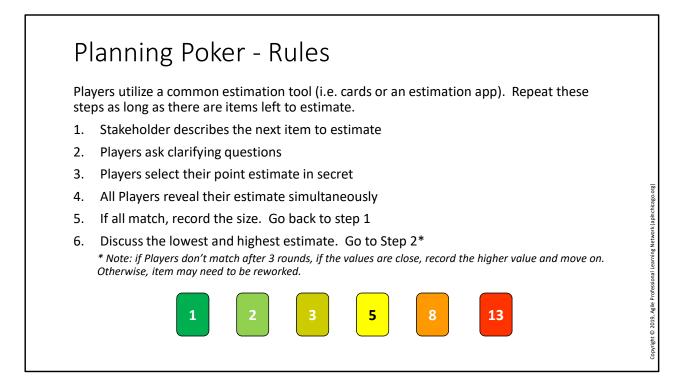
Skimping on the new Definition of Done steps is a terrible idea. Quality is not an option. To satisfy our customer it is a necessity.



Now that we've seen the benefit of creating a cross-functional team (Ed's team performs better than mine, after all), who should have a hand in the estimation of work for that cross-functional team?

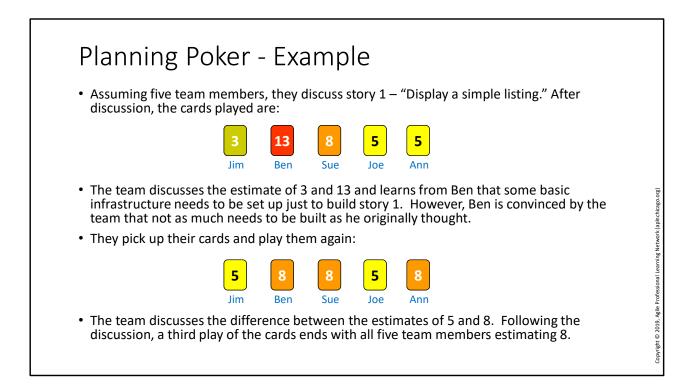
The answer? All of them! They all have a hand, and a unique perspective on the work that needs to be done.

How do we take different points of view into account? There's a fun tool called "Planning Poker"...

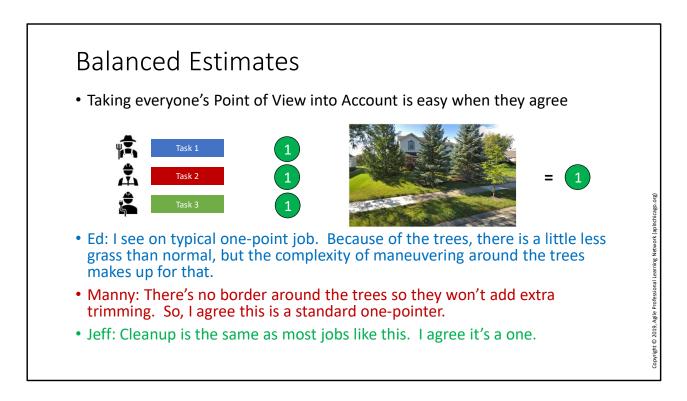


During Backlog Refinement, for as long as there are items in the backlog yet to be sized, and we still have time left in the ceremony timebox...

The product owner presents a work item. The team (Players) ask questions until they understand the ask well enough to offer an estimate. The players do NOT discuss the numbers prior to revealing their estimates all at the same time. If the numbers are different, the highest and lowers estimates are discussed. Then they vote again (adjusting estimates to reflect the outcome of the discussion). We are looking for consensus. If they can't agree after a few rounds of voting, decide on a way to proceed.



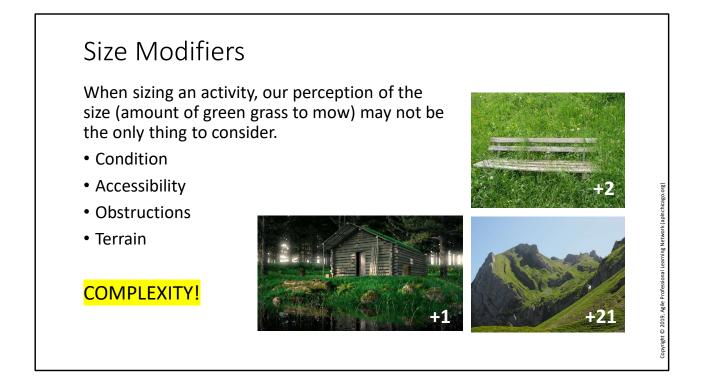
In this example we can see the impact of diverse interpretations of a user story. This is the whole point of having a story and engaging the team in the estimation. How will we know we've unified the understanding of the work that needs to be done without a conversation?



In this example, our three team members look at the job, and they all bring their unique point of view into the estimation.

Note, they are not saying how long each of the steps they need to do will take. They are talking about a Normal amount of effort that goes into work of this type.

That is, "Compared to other one-point jobs we've done, this looks like just about the same amount of effort."



Some of the factors that can influence a lawn estimate are probably not visible from an arial shot. Unusually long grass that will clog your mower, a lot of rocks that could damage the machine, or impossibly steep terrain that could send you and your mower tumbling!

Sometimes you just have to eyeball the situation yourself to get a really good idea, and you may, based on that observation, apply a modifier to your relatively quick thumbnail guess.

## Unbalanced Work What do we do when the members of the team disagree on the sizing? When Ed's Team estimates a yard for their lawncare service... 1. They each look at the yard and share their thoughts 2. Sometimes Manny (the Edger/Trimmer) has a much higher estimate than his teammates





Here we present some examples that offer wildly different levels of complexity for the different roles involved. Understanding WHY the estimates are different is the first step.



Manny has a lot more work to do than the others, and that work is wildly out of proportion.

Some groups of individuals will shrug their shoulders at that, and say, "Too bad, dude. I guess we'll have to call it an 8.

NOTE: It would be an 8, not an 11. You don't add them all together, you take the one that's the biggest.

But a mature team will look for ways to bring that work into alignment across the board. What if Manny wasn't the only one who was doing trimming? The team should discuss the work and determine how they could work together in delivery of that work item, and see if it affects the overall estimate.

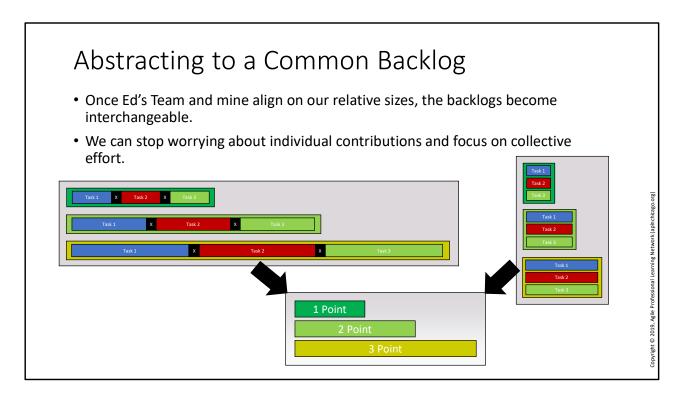
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Of course, there are more properties around my house than just the ones on my block. Way more than any one lawn mowing service (even Ed's) could do in a single weekend. We'll need to have more than one team... and if we're going to have more than one team working together.

When this happens, we'll need to find a way to unify our estimates – that is, to bring them into relative parity with each other. You do this by having the two groups all estimate the same story on their own unique scale, then decide which estimate will become the benchmark. The other estimates are scaled accordingly.

Note, this can be disruptive after the fact, so I find it's better to align the teams through training so they're already in the same ballpark of estimation.

A one is a one is a one.



Now all the work can be combined into a single backlog, and we can distribute work to the different teams. Note: Each team will have a unique Velocity. We've already seen why. That's not a bad thing. It's an accurate thing.

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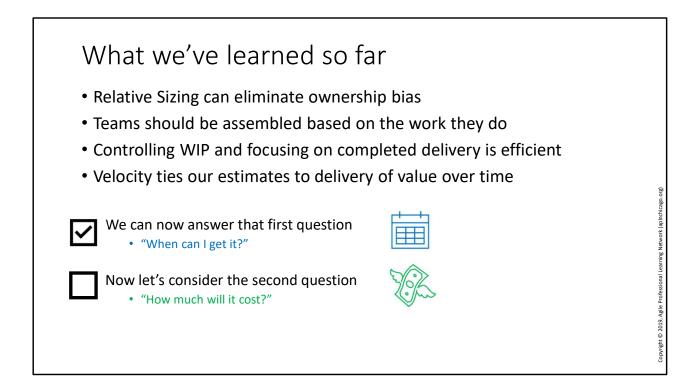
Getting stuff done.

Remember, the whole point of doing this work, is to get paid. We can only get paid by our customers if we've satisfied the Definition of Done on each property.

What would happen if we didn't do one lawn at a time, but instead had each member of the team run out and just do their own thing across all items on the backlog?

Let's say it started raining halfway through our sprint, and we had to stop work on all the lawns in the backlog. We would only get paid for the lawns we actually finished!

It's to our advantage therefore to get as many work items to "Done" as soon as possible (to fend off the risk of a disaster impacting our delivery).



<ul><li>We know how</li><li>We know what</li></ul>	v many te at a work	Porkdays there are in a sprint eam members we have day costs us per person sts associated with doing the work
My Team		Labor Cost = 16 hours (per weekend) x (my hourly rate) x (members
Hours per Sprint	16	Labor Cost = 16 * 10 = \$160 per Sprint
Pay Rate	\$10	Story Cost = Labor Cost / Average Velocity
i ay nate		Story Cost = \$160 / 9 = 17.78 per point
Team Members	1	
	1 9 pts	Material Cost = (Gallons per point) x (Cost per Gallon)
Team Members	_	
Team Members Velocity	9 pts	Material Cost = (Gallons per point) x (Cost per Gallon)

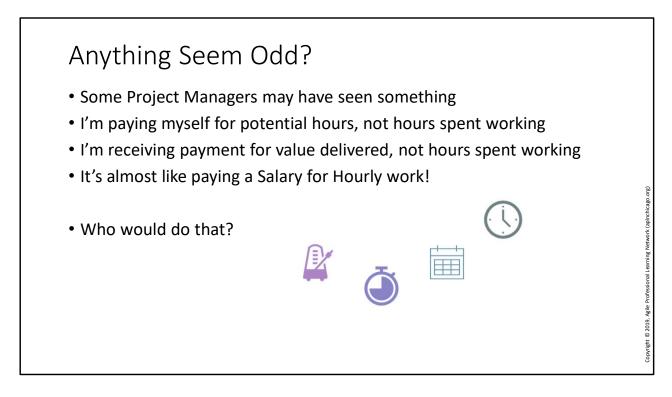
Traditional funding is based on time spent and pay rate. But Project Managers took that to a very precise level by counting (and charging) projects based on hours spent by individuals.

In agile models, we simplify that approach by funding team iterations.

You know how many hours are in a sprint. You know the pay rate for every member of the team. Therefore, you can calculate what that team costs you to exist.

If you divide the Cost of a Sprint by the number of Story Points delivered, you could calculate a Per-Story-Point abstract cost.

If I deliver 9 story points in a sprint, then those 3-SP lawns burned 1/3 of the cost of the sprint!

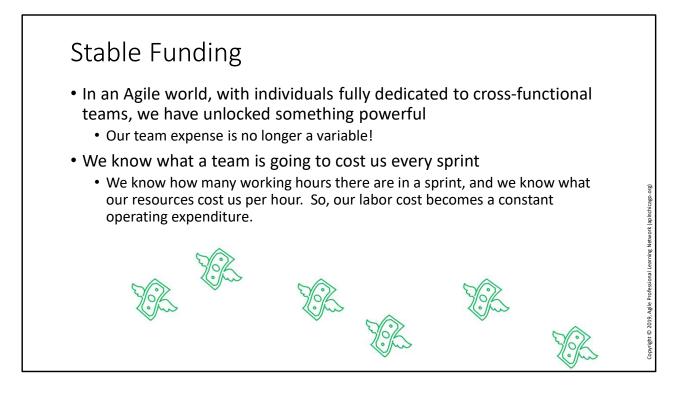


This opened the door for something strange. We'd be charging based on the potential of the team, not on actual time spent. That's a little like paying a Salary, isn't it? That's similar to funding fixed-bid projects. In effect, story pts are your bid for a given job.

Yes, my friend. <u>You</u> are that crazy, wonderful person who pays a fixed salary to your people, regardless of how much work they do! And let me tell you, it's the reason everyone gets so wrapped around the axle on budget. Good grief, listen to them: *"Why am I paying for them when they're not working? That's not fair! I should only pay for the time they're doing work! Well, I'll show you! I'm going to pay someone to make sure everyone is busy every second of the day so I don't waste any money on idle time ever again! Yeah, that'll do it! And because I'm so good at getting project managers to get workers to work, someone should pay me too! Which means I need to be busy, every minute of the day... uh... micro-managing them into a frenzy of performance..."* 

• Ed has the sar	me size S	print 🥐 👬
• Let's assume l	he pays a	is well as I do, for his bigger team
• He has 3 gaso	line-pow	ered machines
-	•	hat equipment around, too!
My Team		Labor Cost = 16 hours (per weekend) x (his hourly rate) x (member
Hours por Sprint	16	Labor Cost = 16 * 10 * 3 = \$480 per Sprint
Hours per Sprint		
Pay Rate	\$10	Story Cost = Labor Cost / Average Velocity
	\$10 3	Story Cost = Labor Cost / Average Velocity Story Cost = \$480 / 36 = 13.33 per point
Pay Rate	•	Story Cost = \$480 / 36 = 13.33 per point Material Cost = (Gallons per point) x (Cost per Gallon)
Pay Rate Team Members	3	Story Cost = \$480 / 36 = 13.33 per point
Pay Rate Team Members Velocity	3 36 pts	Story Cost = \$480 / 36 = 13.33 per point Material Cost = (Gallons per point) x (Cost per Gallon)

Oddly, Ed's efficiency means his outlay per point is even lower than mine, even though he has a bigger team! It's not all roses for Ed. He still has to truck all that equipment around, so he needs to add additional travel cost as well. That's why he loves getting groups of customers in the same area.



If we are asked to forecast delivery of a feature, we could estimate the stories that describe that feature and divide the total points by the average velocity of the team --- giving us a rough number of sprints to deliver that feature. Multiply that number of sprints by the cost of a sprint, et viola, you have both a cost estimate for the feature, and a projected duration for delivery if that was all they focused on.

