



Flowstoppers are the enemies of agility

...but not a law of nature, and you can do something about them



Annette Vendelbo's professional work

- Agile expert with a particular focus on Kanban, but also Scrum and SAFe and the challenges of agile.
- Agile consulting, coaching and management sparring
- Teaching: Kanban, Scrum, agile leadership, strategic agility, etc.
- Accredited Kanban Trainer (AKT), Accredited Kanban Consultant (AKC), certified SM and PO, SAFe and PM certified

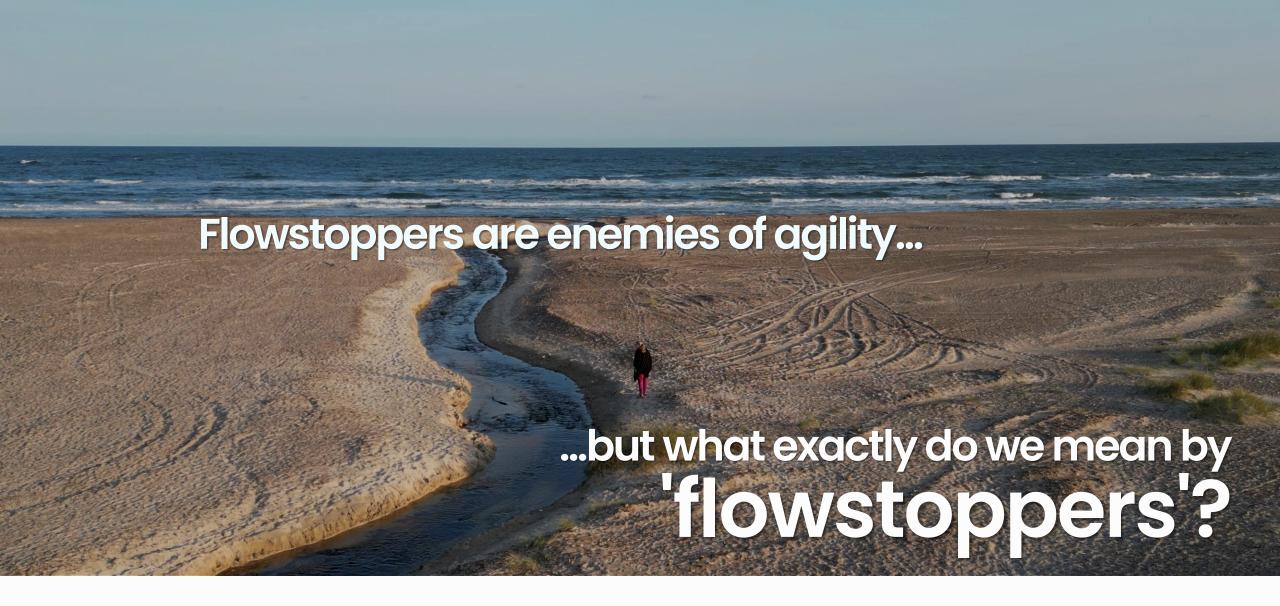
Volunteering, writing, lecturing:

- Agile subject matter expert on Project Management Institute's agile initiatives and exam writing workshops
- Collaboration with Kanban University, including translation of material into Danish
- Author of several books (agile transformations and Kanban)
- International speaker
- Blogger
- Podcaster (The Agile Agenda)

What you are about to hear now is completely independent of company size, industry, sector etc.

The experiences I share are from agile implementations and transformations, consulting etc. during the past 15 years.











The short answer:





The slightly longer answer to understand flowstoppers and find solutions



Some possible solutions

Complexity in knowledge work



The slightly longer answer to understand 11- Some possible Complexity in knowledge work





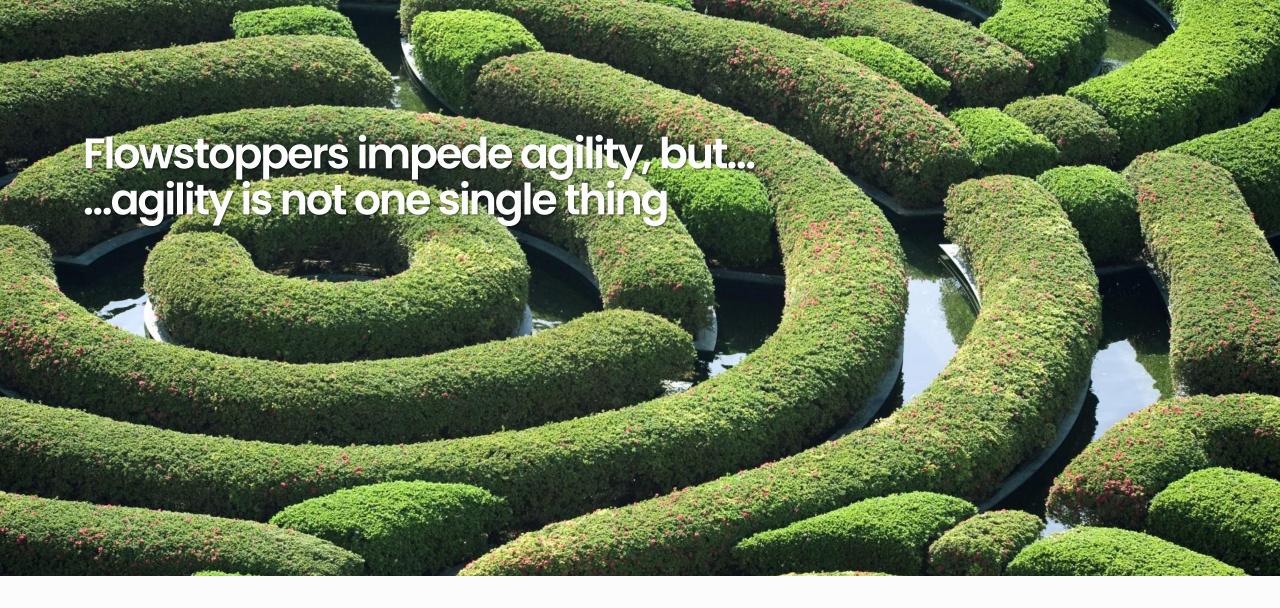


Whether you run your projects or initiatives the classic way or you've chosen an agile approach, one thing is 100% certain:

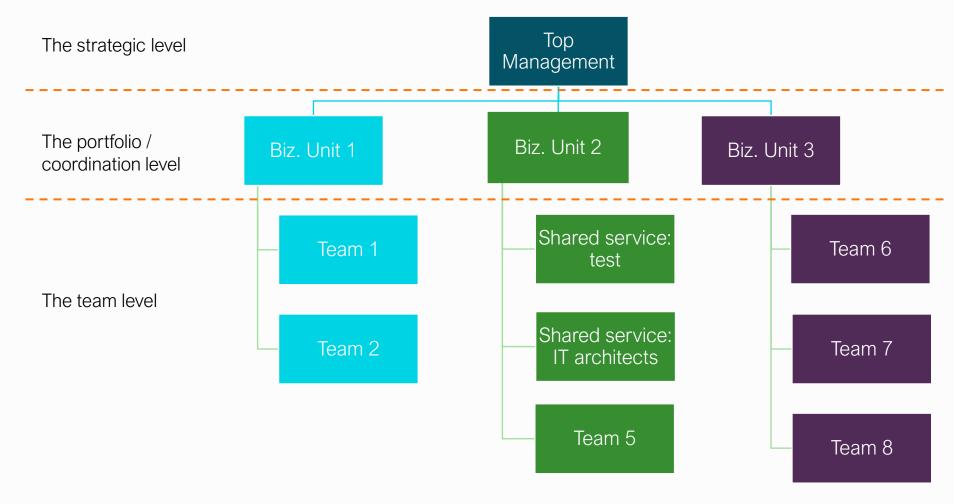
You're guaranteed to be hit with things that no one could have predicted, no matter how much careful planning you do.

That's because knowledge work is carried out in complex waters, where there are many unknown unknowns and areas where everything is new. That's why it's an illusion to believe, you can hit the "bulls-eye", you are trying to hit, when creating a project plan or planning in sprints.

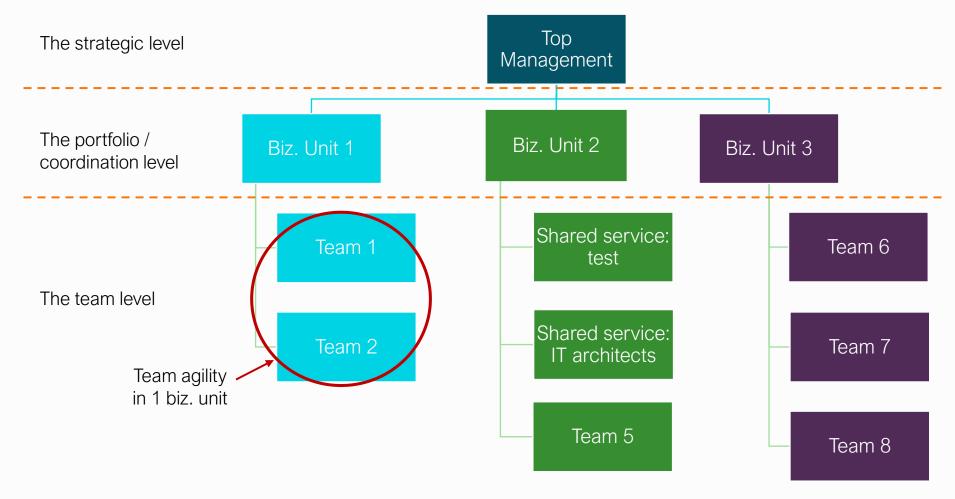




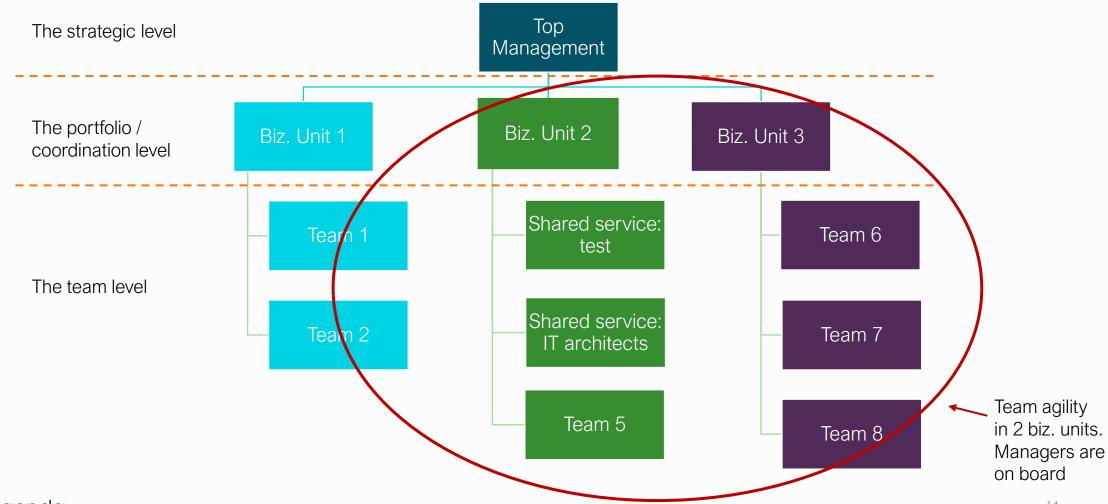




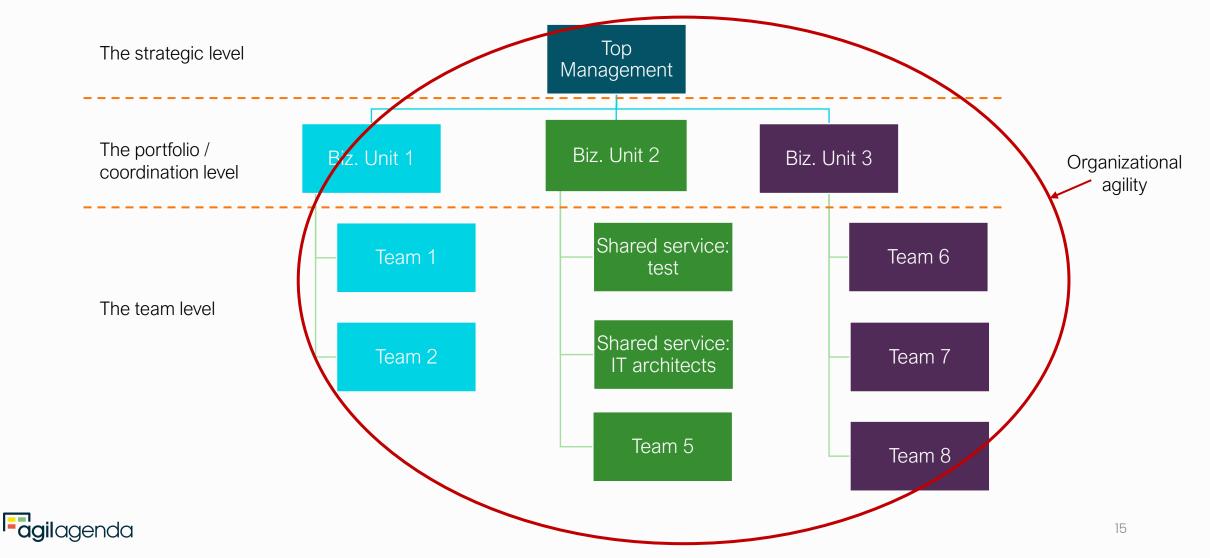






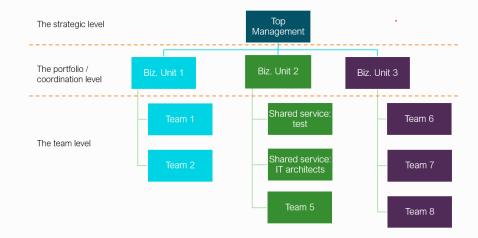


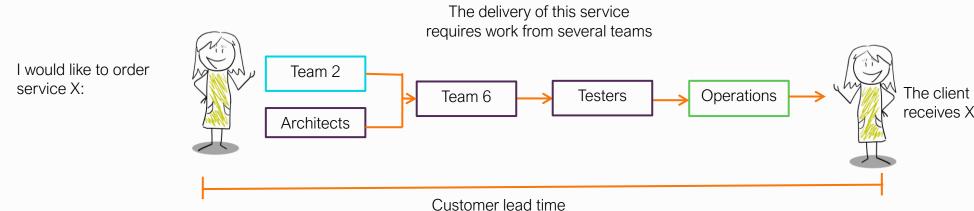




Whether you're agile or not, customers (internal or external) just want their goods...

- Organizational agility is about agreeing on priorities across departments and teams
- It can only happen if the leadership is on board
- Organizational agility stops when the first manager says, "I don't want to do that" (and gets away with it)







The slightly longer answer to understand Ja Some possible Examples o Complexity in knowledge work



The slightly longer answer to understand 11. Some possible Examples of flowstoppers •



Say hello to a couple of flowstoppers



This is Peter:

- He's a highly skilled specialist that everyone is pulling and tearing at.
- He is what is known in Kanban as a "single point of failure".
- He's the only one who can do what he is specialized in.
- He rushes from one team to the next with his fire extinguisher.
- Peter is hardworking and does what he can.
 But he's the cause of many and long wait times.
- Sometimes an entire team can't move forward because he doesn't have time to help

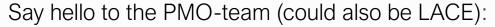
And this is Mary:

- She's the boss, and that's because she loves having influence and being in charge.
- When it comes to prioritizing, Mary wants to "step in". She does so randomly, and her priorities often change.
- Mary also wants to be the one to approve deliveries and make strategic decisions.
- She's a busy lady who goes to a lot of meetings. That's what happens when you're the boss...
- That's why many teams are waiting for Mary's approvals and decisions so they can move on with their work.
- Meanwhile, people task-switch what else would they do? (But it's just plain inefficient).
- Mary also likes to demonstrate decisiveness by giving her teams new, urgent tasks (push).

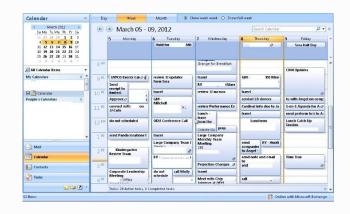


Here are a few more flowstoppers





- They really love processes, and many of the ones they've created work really well.
- They just love processes SO much that they sometimes invent new processes because they imagine it will improve things.
- Some of the processes are so cumbersome and time-consuming that people prefer not to use them.
- ...but they must, because PMO/LACE is in charge!
- Sometimes the process team forgets to talk to the people that do the actual work, and the process work becomes an academic exercise.
- Some processes actually result in waisted time.



Do you have the Outlook blues too?

- You know that thing about wall-to-wall meetings?
- Have you ever thought, "Why am I sitting here and when am I going to do some "honest work"?
- Meetings can be defined as either operations or transaction costs. The more unnecessary meetings you can eliminate, the better.
- Any meeting that doesn't provide tangible value is a flowstopper.
- But hey! Meetings are a law of nature and show that you're important. Or are they?



Things that slow down flow are dead annoying and extremely common.

But can you do anything about it?

The short answer is a big, resounding YES!



The slightly longer answer to understand 11. Some possible Examples of flowstoppers •



The slightly longer answer to understand Some possible solutions







Optimizing flow based on Kanban's principles and practices

Kanban is and was always a flow system. The focus is on quantifiable outcomes documented with data

- Flow is a concept that is used more or less explicitly in all agile frameworks. But flow is the purpose – and thus an integral part – of the Kanban method.
- To use this purely flow-centric system as a starting point, I will start with showing how Kanban orchestrates the work with the backlog. I.e., the requirements that arrive to your team.
- Scrum and certainly SAFe are incorporating more and more Kanban. They have also discovered the power of the Kanban practices.

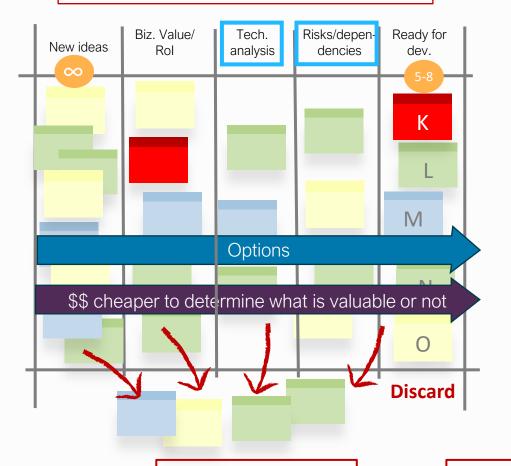


The whole idea of working so thoroughly upstream is to catch flowstoppers before they occur. It is simply a risk management strategy.

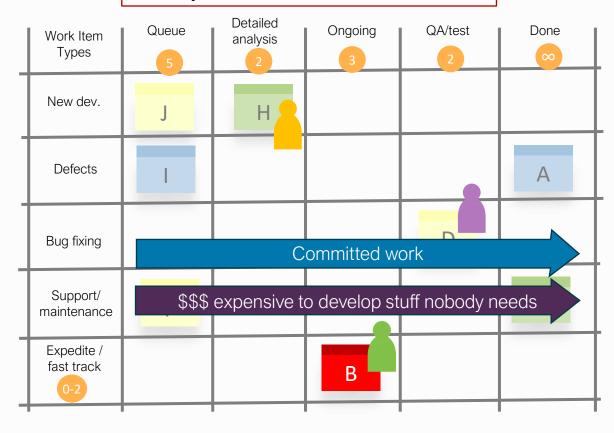
The client absolutely needs it, and the team can deliver it

Commitment Point

New requirements/ideas = upstream Kanban



Delivery/work board = Downstream Kanban



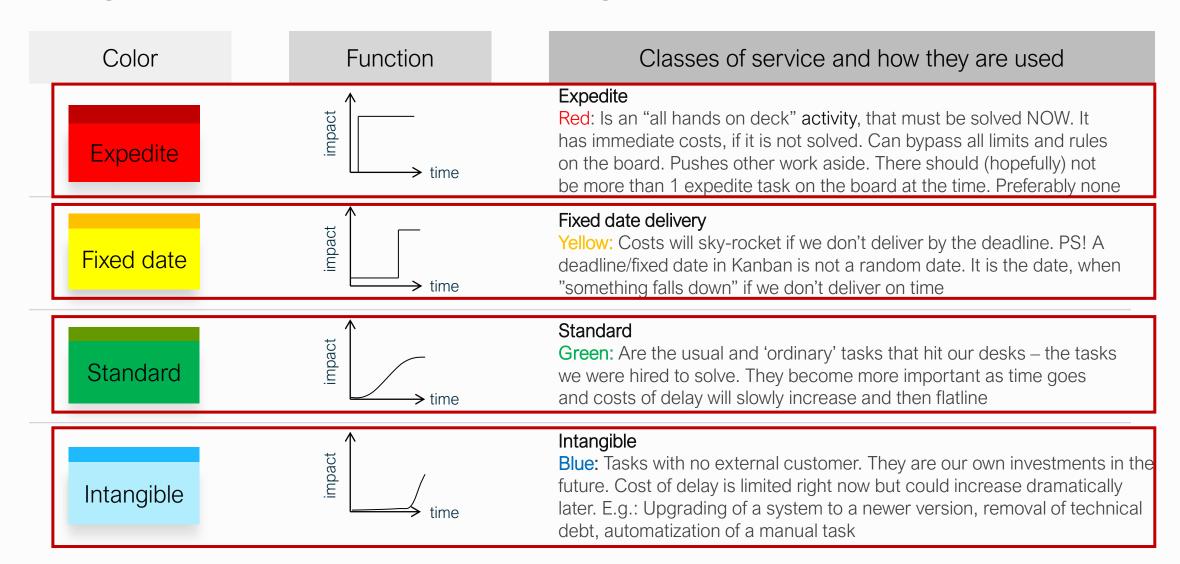
There are often more tasks elsewhere. They're just further in the future

Her lives "Definition of Ready" You can easily set your goals and ambitions in cadences of, say, 2 weeks

Her lives "Definition of Done"



Using Class of Service and thinking Cost of Delay improves flow





In Kanban, you use data to see trends and find your flowstoppers, but what to measure?



• First and foremost, we measure lead times which is the most important metric of all.

 Lead times represent reality and not gut feelings, crystal balls or best guesses.



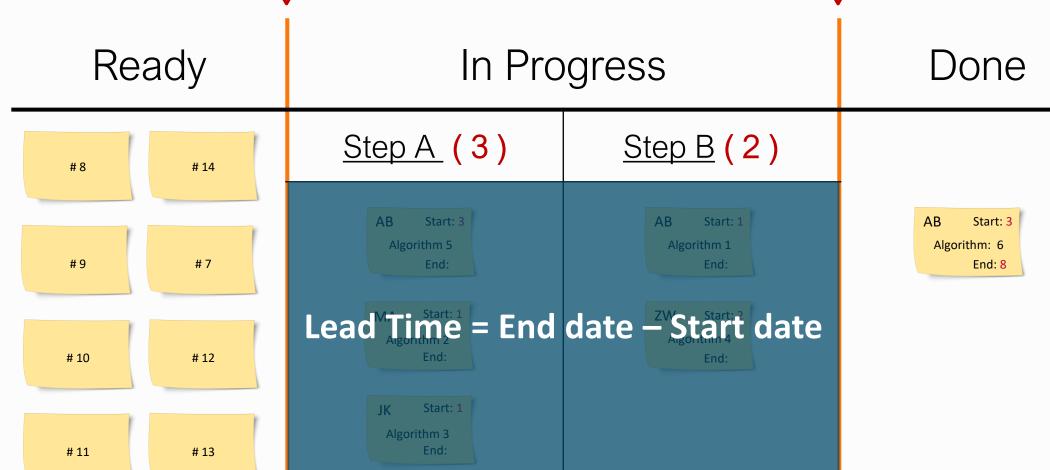
Lead times show historical productivity.

Source: Kanban University

(Not to be confused with estimates).

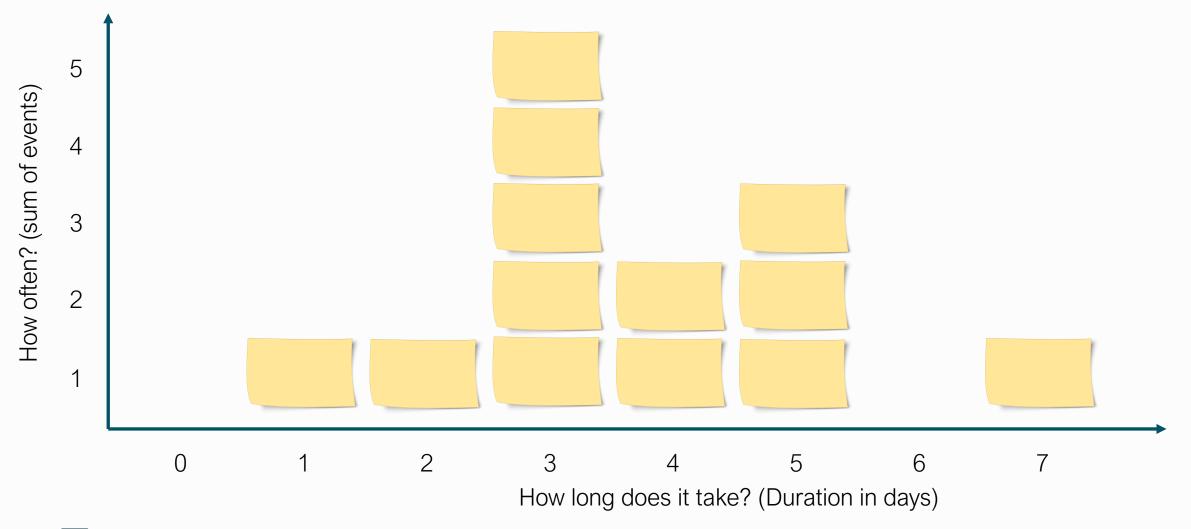






Lead times are a distribution - not a bullseye.

The lead time distribution shows how consistently you deliver. High spread = high unpredictability





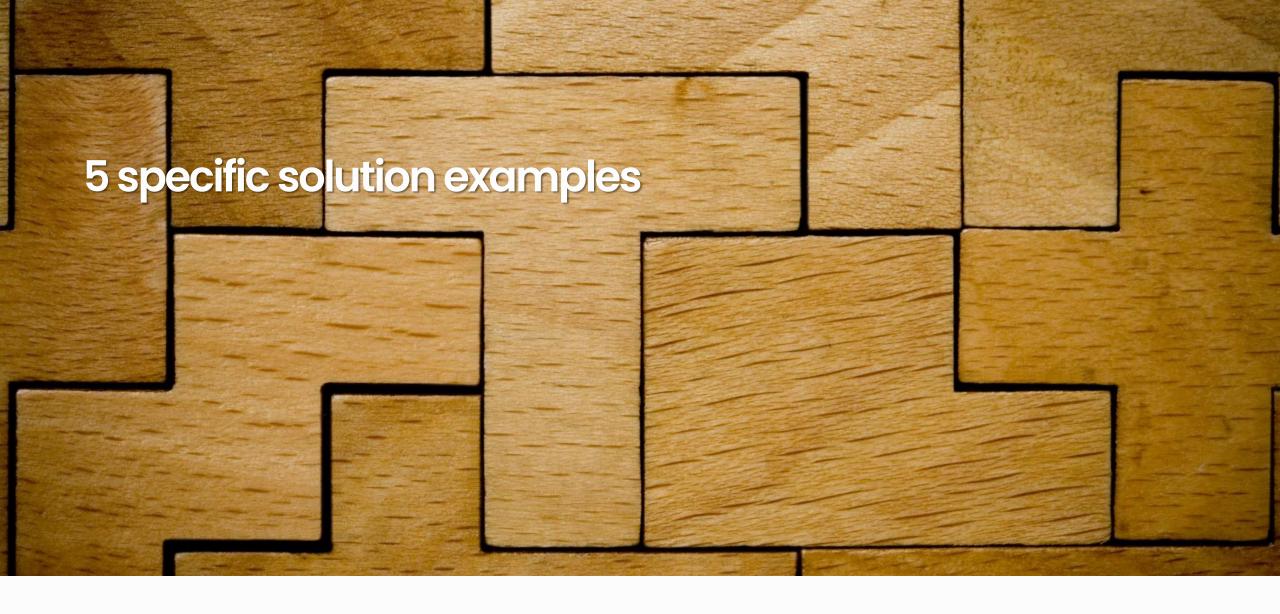


- Throughput: The number of completed tasks in the measuring period.
- The number of blockers during the period and what it has cost in wasted time.
- How much rework in the period due to incorrect deliveries, misunderstandings, etc.

- Number of errors reported in the measuring period.
- Number of errors corrected in the period.

All metrics are collected over time, providing a clear picture of how consistently and predictably you deliver.







Solution to Peter being a specialist bottleneck

- When you have dependencies on one or more specialists, you know it.
- Dependencies are predictable and shouldn't come as a surprise.
- Therefore, the tasks you solve must be carefully analyzed upstream before you start.
- If you use Kanban, you work in a structured way with your upstream Kanban.
- If you don't use Kanban, you can still adopt the upstream mindset and keep in mind that you should <u>always</u> check for dependencies before you start.

- If you know you can't complete your task without Peter's help, find out when he's available and make an agreement with him.
- Based on that knowledge, you plan when to start that task so it can be completed without getting blocked.
- Never start a task that you know in advance will be blocked.





Solution to Mary being a decision-making bottleneck

- Mary has probably without realizing it become a huge bottleneck and the cause of unnecessarily long wait times.
- She is the cause of 2 different kinds of flowstoppers. At least.
 - 1. She wants to be part of the prioritization process, and does it randomly
 - 2. She wants to approve her teams' deliverables and make strategic decisions.
- The negative effect of this can be minimized or even removed. It just requires that you
 make some explicit agreements with Mary.

- 1. For example, you agree with Mary to look at the tasks that are upstream once a week.
 - a. Mary participates in a recurring (replenishment) meeting and decides what is at the top of her hit list. Before you have started working on the task.
 - b. You agree with Mary that she will not change her mind about prioritization once the work has started.
- 2. To avoid waiting for approvals or decisions longer than necessary, you agree some timeslots with Mary where she will be available for decision-making and approvals.
 - a. For example, time could be reserved on Mondays, Wednesdays and Fridays from 13:00 14:00.



Solution to the PMO team (or LACE) being a process bottleneck

- If you're in a pure process and methodology team, you can get carried away and create principles and processes that are more of a hindrance than a help.
- To address this, again, you need to make explicit agreements. It may take some management power to make this happen.



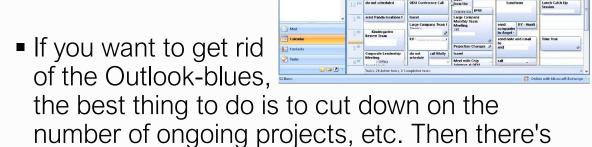
What you (preferably) need to agree on, is:

- That there is no "one-size-fits-all". Also, not on the process front.
- No two projects or initiatives are the same. Therefore, you should avoid rolling out the entire process palette for all of them. It should depend on the context.
- Don't create new processes unless you are able to explain exactly what problem you want to solve with it.
- Don't use inexplicable processes just because "it's stated in the method or framework".



Solution to "Outlook blues" being a scheduling bottleneck

- My belief is that most people go to meetings that are a waste of time. They do so because someone invited them and because they made sense at the time. Now they don't, but no one challenges the need for them.
- The more projects, initiatives or tasks you have going on at the same time, the more prioritization meetings you will need.
- The more projects etc. going on at the same time, the greater the need for meetings to fight for the same scarce resources.
- If you're not in control of your processes, the need for coordination meetings grows.



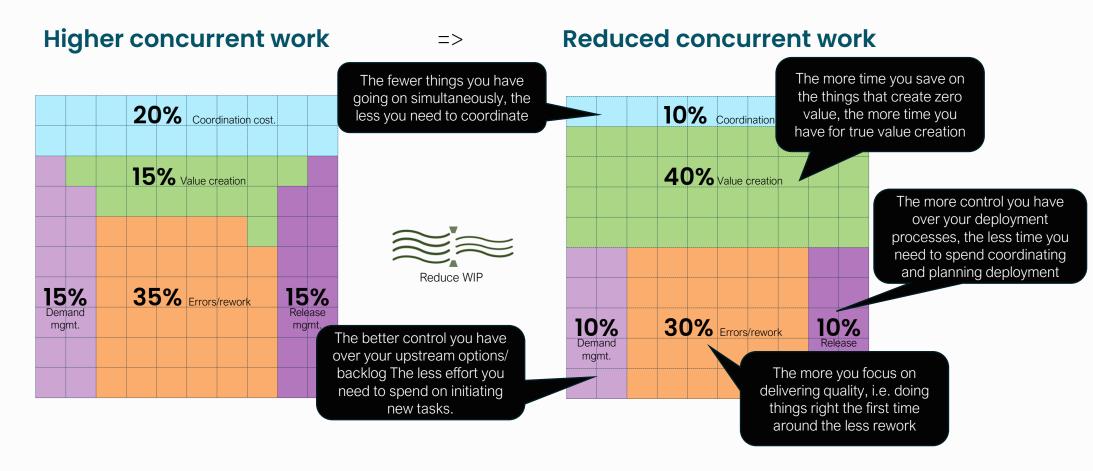
You should also go through your calendar with a fine-toothed comb and determine which meetings are absolutely necessary and which ones no longer make sense to attend.

less to coordinate.

■ Take a good hard look at your processes, such as those that govern how you receive and prioritize new tasks (upstream) and deploy them (downstream). This will automatically reduce the need for meetings.



A concrete example: 50% reduction in coordination costs in 6 months in the areas where Kanban was introduced





Dependency bottlenecks: Cross-cutting dependencies need to be brought into the light

Examples of explicit rules for this board

Depender

Only dependencies that can result in missed deadlines, projects or teams not moving forward, delayed deployment, etc. should be on the board

Critical dependencies



Activities that clash. For example, 2 teams that need the same key person, who doesn't have time for both, need to be on the board. Management must prioritize these tasks



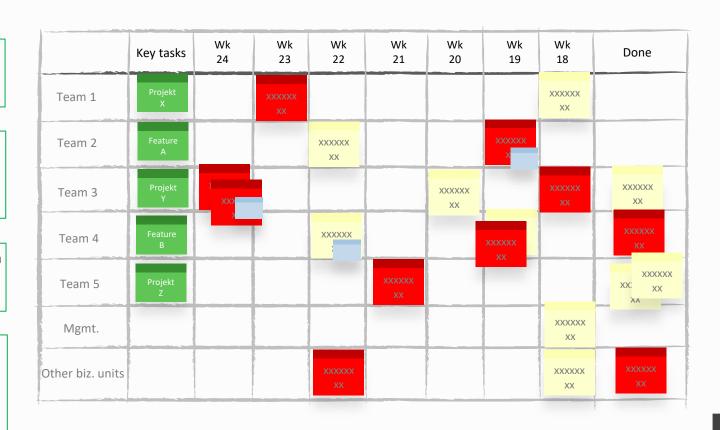


In the "Key tasks" column, add a large Post-It with a short description of which tasks are in focus in the current period

Put a small blue Postit on a yellow or red one when they enter the board

The cards on the board have information about:

- When they were added to the board
- Description of the activity that another team or person in the team needs to complete
- The week/date the activity is due









General actions against flowstoppers...

- Perhaps most importantly, <u>measure your lead</u> <u>times</u> over time and look for inexplicable variance.
- Ensure thorough and <u>structured requirements</u> <u>management</u> (upstream).
- Stay focused on blockers and analyze why they occur, what the cost is, and what action to take.

- Strengthen your <u>focus on quality</u> and measure the types and sources of errors to minimize rework.
- Manage and <u>trim your processes</u> to minimize handoffs and wait times and adapt them to the real world.
- Use data to make informed decisions



Conclusions

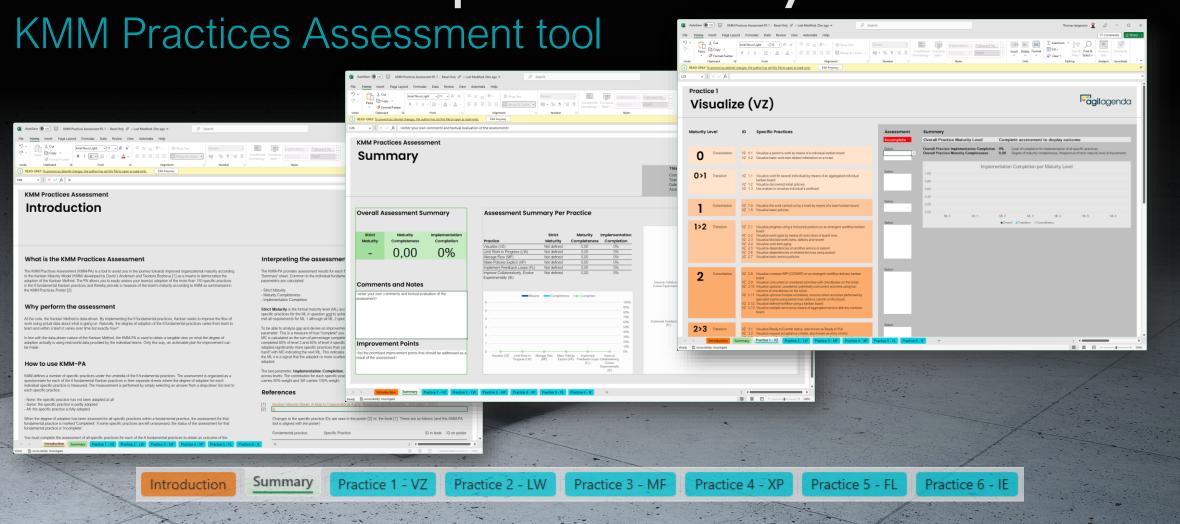
- All projects, initiatives or whatever you call it are hit by flowstoppers.
- Many delays that occur are self-inflicted. They are caused by poor processes, shifting priorities, bottlenecks and other things in your system that you could do something about if you wanted to.
- Proactively managing flowstoppers is an effective way to manage risk.
- No framework or method can...
 - ...change a bad culture, bad behavior, lack of leadership etc., itself. Only you can do that.
 - ... make complex things less complex, but greater transparency can make complex stuff easier to manage...
- Removing the things that slow down the free flow can be a bit of a challenge. But it pays off!
- An evolutionary approach is 100% certain to be more sustainable than a revolutionary approach.
- Data is the best basis for robust decisions. Gut feelings, opinions and crystal balls are not enough.
 Because...
- ...only data is reality, and reality always wins!







How we measure improved maturity





How we measure improved maturity

An example from one of the teams we have worked with

Overall Assessment Summary

Strict Maturity Implementation Completion

1 2,36 47%

Comments and Notes

This is assessment number 3

XP 3.2 og 3.3 policies for discarding activities upstream and aborting activities downstream. Work with this has been started. Follow up during assessment no. 4 in May

Improvement Points

VZ 2.11 Visualize optional multiple unordered, nonconcurrent activities performed by specialist teams using partial rows within a column on the board

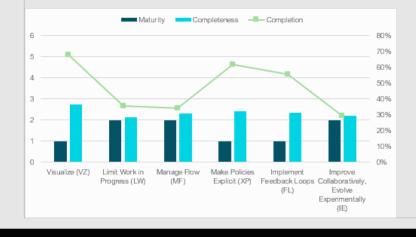
VZ 3.6 Vusualize aborted work

XP 2.5: Define policies for managing defects and other rework types

Assessment Summary Per Practice

| Practice | Strict Maturity | Maturity Completeness | Implementation Completion |
|---------------------------------|--------------------|--------------------------|------------------------------|
| | | | |
| Limit Work in Progress (LW) | 2 | 2,14 | 36% |
| Manage Flow (MF) | 2 | 2,32 | 34% |
| Make Policies Explicit (XP) | 1 | 2,40 | 62% |
| Implement Feedback Loops (FL) | 1 | 2,33 | 56% |
| Improve Collaboratively, Evolve | 2 | 2,20 | 29% |

Experimentally (IE)







agilagenda

annette@agilagenda.com

BASIC GUIDE TO ANNETTE VENDELBO

...if you want to know more about Kanban and agile transformations

www.agilagenda.com

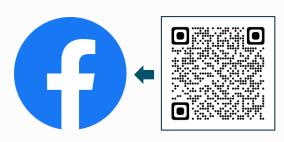


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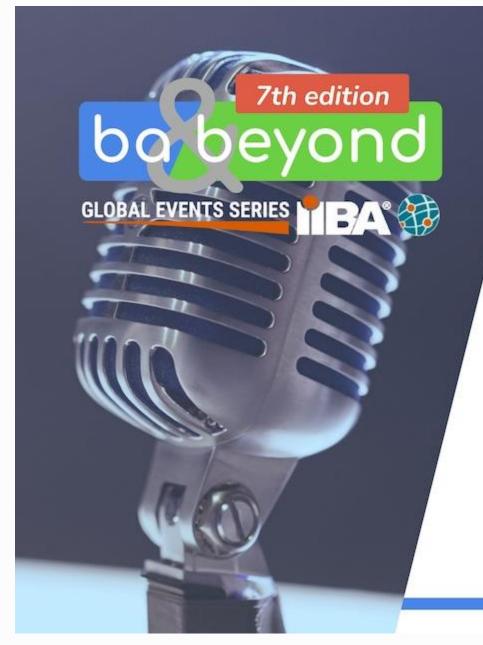


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Annual Conference

Denmark — The Netherlands — Belgium — Luxembourg

Perspectives

Denmark 28 May

The Netherlands 30 May

Belgium ^{3-4 June}

Luxembourg 6 June

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