Why Kanban

Helps to discover flaws in our system

Indicates
where to tune
for customer
value creation

Optimize value stream from commitment (to work on something) until delivery to the customer Increase systems predictability (by building stable systems) Locate problems looking at our system at whole? A highly flexibly approach and without front heavy change

Focus on finishing work

Goal to create a fluent, flow based, value generating system showing what happens from idea to customer value generation

What

Start with what you do know

Respect current process, roles and responsibilities

Agree to pursue incremental, evolutionary change

Encourage acts of leadership at all levels

Why

derive changes ... it will highlight issues soon

to avoid change resistance

to increase commitment do small changes to the way work is done

to empower all involved to drive changes and get high adoption and commitment

How

work with incremental, derived changes

respect and value the current system and introduce logical changes

evolutionary: analyse & understand curren system and adjust necessary change step

everyone fosters mindest of continuous improvement

Kanban is the implementation of these core principles and practices

Kanban is applied to an existing working process

Focus on optimizing value generation (and custome satisfaction)

design system together

6 Kanban practices (that a successful implementation of Kanban present)

What

Why

How

Visualize the work(flow)

everyone

is on the

same page

Work in **Progress**

Limit

Manage Flow

Make process policies explicit

Implement Feedback loops

Improve collaboratively

see **WIP**

optimize for customer value delivery and not for people capacity utilization

to generate a understanding

fast learning & adaptation adopt system to changing environment

e.g. reduces the need for extra status update meetings

manage work not workers (this has a higher systemic impact)

to learn if a change works

ensure learning and adaptation

recommended

retrospectives

visualize every piece of value creating work

see-Kanban **Boards**

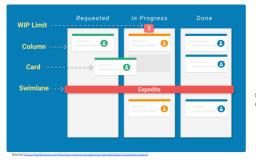
WIP Limits

visualize workflow

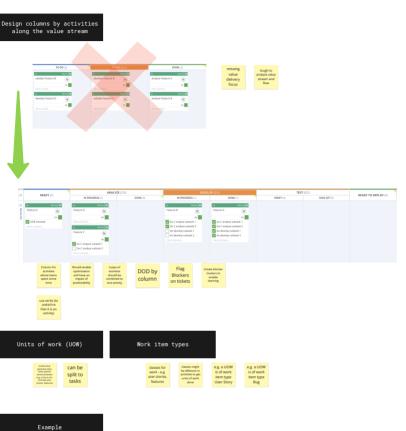
if a policy does not longer provide value, change it

recommended standups, replenishment, retrospectives

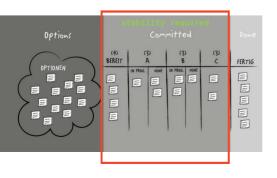
metrics



Swimlanes: To separate different types of activities, teams, classes of services,...







Work in Progress - WIP

The number of items a team is currently working on

WIP Limits

Problem

limited capacity in each system

fluctuating WIP lowers system predictability

For what?

used to manage the teams workflow

foster stop starting and start finishing of items

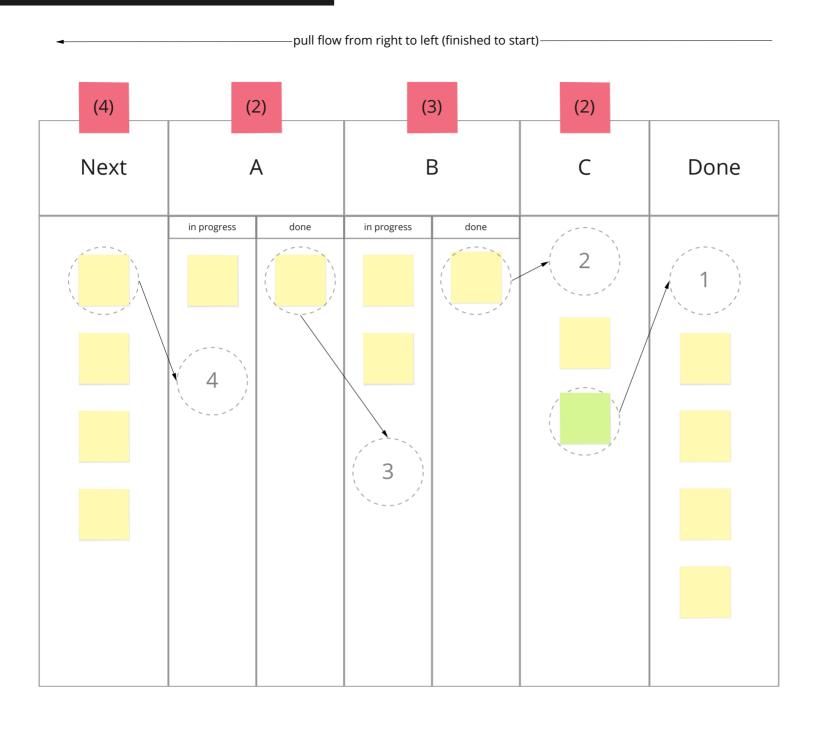
support implementing a pull system limit bound capital in the system enables focus

increases predictability late commitment and increased flexibility to customer demand changes

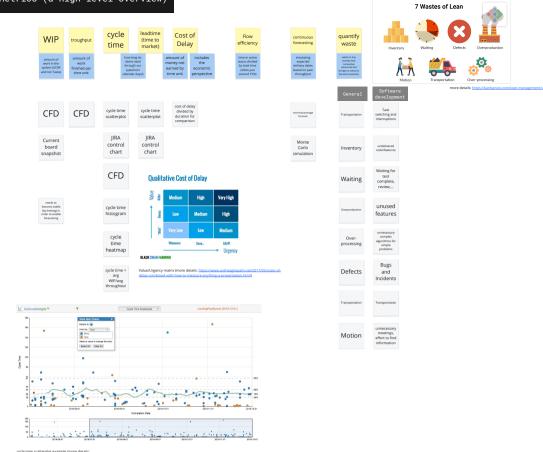
How?

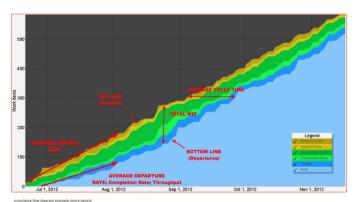
on overall board level on column level on swimlane level consider 3 cards per person as a magic starting point to tune from apply on value generating units of work

more details: https://medium.com/@thorbjorn.sigberg/how-to-succeed-with-wip-limits-b97868abe407



Metrics (a high level overview)

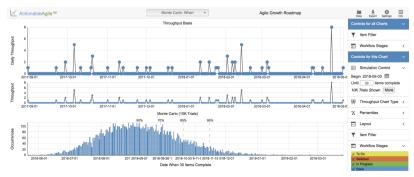




https://www.onthengliepath.net/2015/04/unleash-predictability-by-using-actionable-agilimetrics-6-key-learnings-from-daniel-s-vacantis-awesome-book.html)

Example

- lets assume we are at position 30 in the backlog - we can use Monte Carlo When with 30 items and a begin dat from today (in this example $\stackrel{.}{\text{\ensuremath{\text{colo}}}}$ 03 May 2018)



- shows that with 95% probability 30 items can be completed until 15.11.

Daily

board right to left

focus on getting things done

Replenishment

on demand of fixed cadence get UOW in shape and move into ready/selected

How might we ensure frequent backlog refinement and grooming in Kanban?

DOR

retrospective

on demand of fixed cadence

focus on optimizing the overall value delivery!

embed data from your metrics

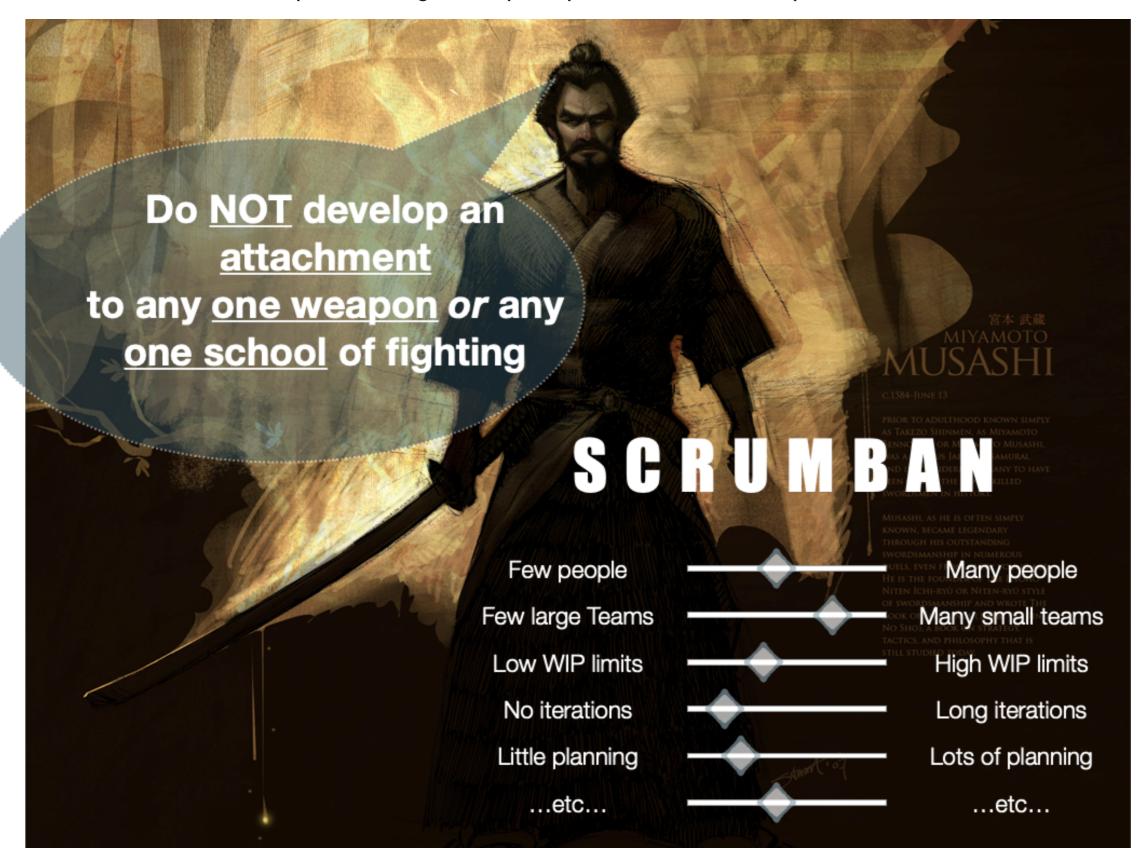
add improvements to your Kanban board or update your policies or working agreements

Condensed Scrumban Overview

Emphasizes **applying Kanban systems within a Scrum context** and layering the Kanban Method alongside Scrum as a vehicle for evolutionary change.

Slides
https://de.slideshare
.net/sradics/scrumb
an-revolution-arenoestimate-andnosprints-your-nextsteps (Basti)

It's about aiding and amplifying the capabilities already inherent in Scrum as well as providing new perspectives and capabilities.



5 steps of evolution

No Estimates

No Sprints

Flow based Standups

Actionable Agile metrics

On Demand Retrospectives

Let's compare the 3 approaches

| | | I | |
|---|---|--|--|
| | Scrum | Kanban | Scrumban |
| Board/Artifacts | simple board product backlog sprint backlog product increment burndown chart | board mapped on the process | board mapped on the process |
| Ceremonies | daily Scrum sprint planning sprint review sprint retrospective | none required | daily Scrum other Scrum related ceremonies if needed |
| Prioritization | Part of backlog grooming. Done by PO | Out of the process. There should be a prioritized backlog. | Out of the process. There should be a prioritized backlog. Can be a grooming. |
| Who feeds the work in progress ("brings new work") | PO | Depends on defined roles and necessities | Depends on defined roles and necessities |
| Iterations | yes (sprints) | no (continuous flow) | not mandatory (continuous flow); could have sprints |
| Estimations | yes (in ideal days or story points) | no (similar work size items) | no (similar work size items) |
| Teams | recommended cross functional | cross functional or specialized | cross functional or specialized |
| Roles | Product Owner Scrum Master Team | as needed | Team + as needed |
| Teamwork | collaborative | based on pull approach | based on pull approach |
| WIP | planned for the duration of the sprint | controlled by workflow state | controlled by workflow state |
| changes to work scope | should wait for next sprint | added as needed (JIT) | added as needed (JIT) |
| Product backlog | prioritized list of user stories (estimated) | no (JIT) | no (JIT) |
| Impediments | addressed immediately | addressed immediately | addressed immediately |
| When does it fit? | Product development Small value adding increments development possible Requirements are in good shape | Support/maintenance work (operational level) | Product development (unclear vision) Evolving requirements (no clear roadmap) Need to include support/maintenance (event driven) work |

Dive deeper

Scrumban

Slides

https://de.slideshare .net/sradics/scrumb an-revolution-arenoestimate-andnosprints-your-nextsteps (Basti) The Scrumban revolution: http://scrumbanrevolution.com/#Ho me (Ajay Reddy)

What is ScrumBan
- http://yuvalyeret.com/so-what-is-scrumban/ (Yuval Yeret)

What is Scrumban

https://www.agil ealliance.org/what-is-scrumban/(Agile Alliance) Recorded session about Scrumban

https://www.ontheagilepat h.net/2015/07/scrumbanrevolution-of-scrumrecorded-presentationfrom-the-berlin-scrummeetup.html (Basti)

Kanban and Scrum making the most of both worlds

 https://www.infoq.com/mi nibooks/kanban-scrumminibook/ (Henrik Kniberg)

7 wastes article

Lean

- https://kanbaniz e.com/leanmanagement/valu e-waste/7-wastesof-lean Toyota Kata

Metrics

Actionable Agile (metrics)
https://actionabl

eagile.com/ (Da niel S. Vacantl

#NoEstimates book

- https://oikosofyseri es.com/noestimates-bookorder (Vasco Duarte)

Kanban

Kanban (the original by David J.

Anderson) https://www.am azon.com/David-J-Anderson-

ebook/dp/B0057H2M70/ref

dchild=1&keywords=kanba n&gid=1592507771&sr=8-1

Kanban from the Inside (Mike Burrows)

- https://www.amazon.com/Kanb an-Inside-Understand-connectintroduce/dp/0985305193/ref=sr

dchild=1&keywords=kanban&qid =1592507820&sr=8-21