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IS KANBAN AN AGILE TOOL ?

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Is KANBAN an Agile Tool ?

While Toyota developed KANBAN in 1947, we think it is part of the Agile world.

Why?

What is the motivation?

How does it fit into SCRUM besides using sticky notes on boards?

Agile Manifesto (from SCRUM): Where would KANBAN be sorted in?



Satisfy
The Customer



Welcome Changing
Requirements



Deliver Working
Software Frequently



Collaborate
Daily



Motivated
Individuals



Face-to-face
Conversation



Measure Of Progress
Through Working Product



Promote Sustainable
Development



Continuous Attention To
Technical Excellence



Simplicity
Is Essential

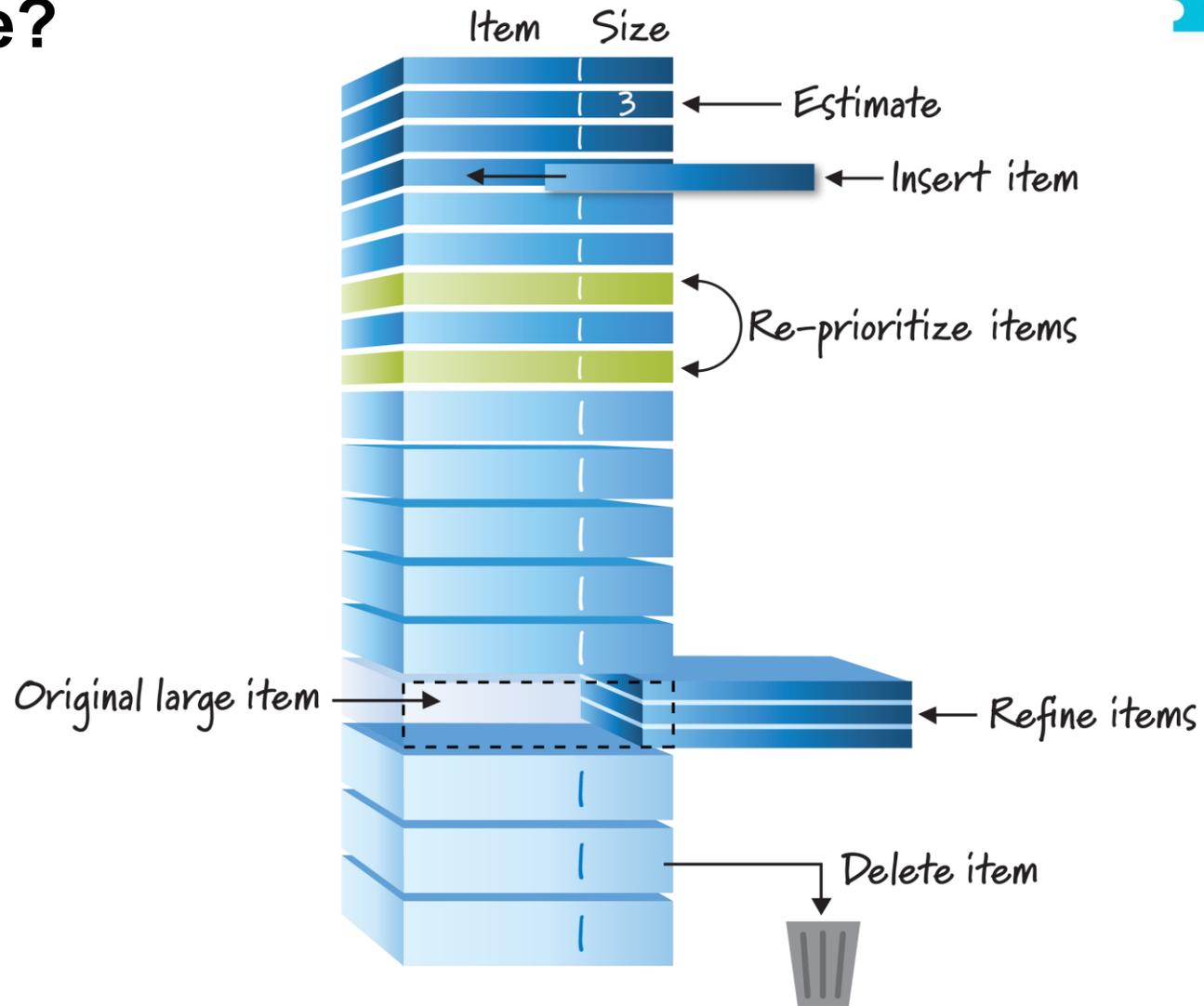


Self-organizing
Teams



Regularity Reflect On
Continuously Improving

... or here?



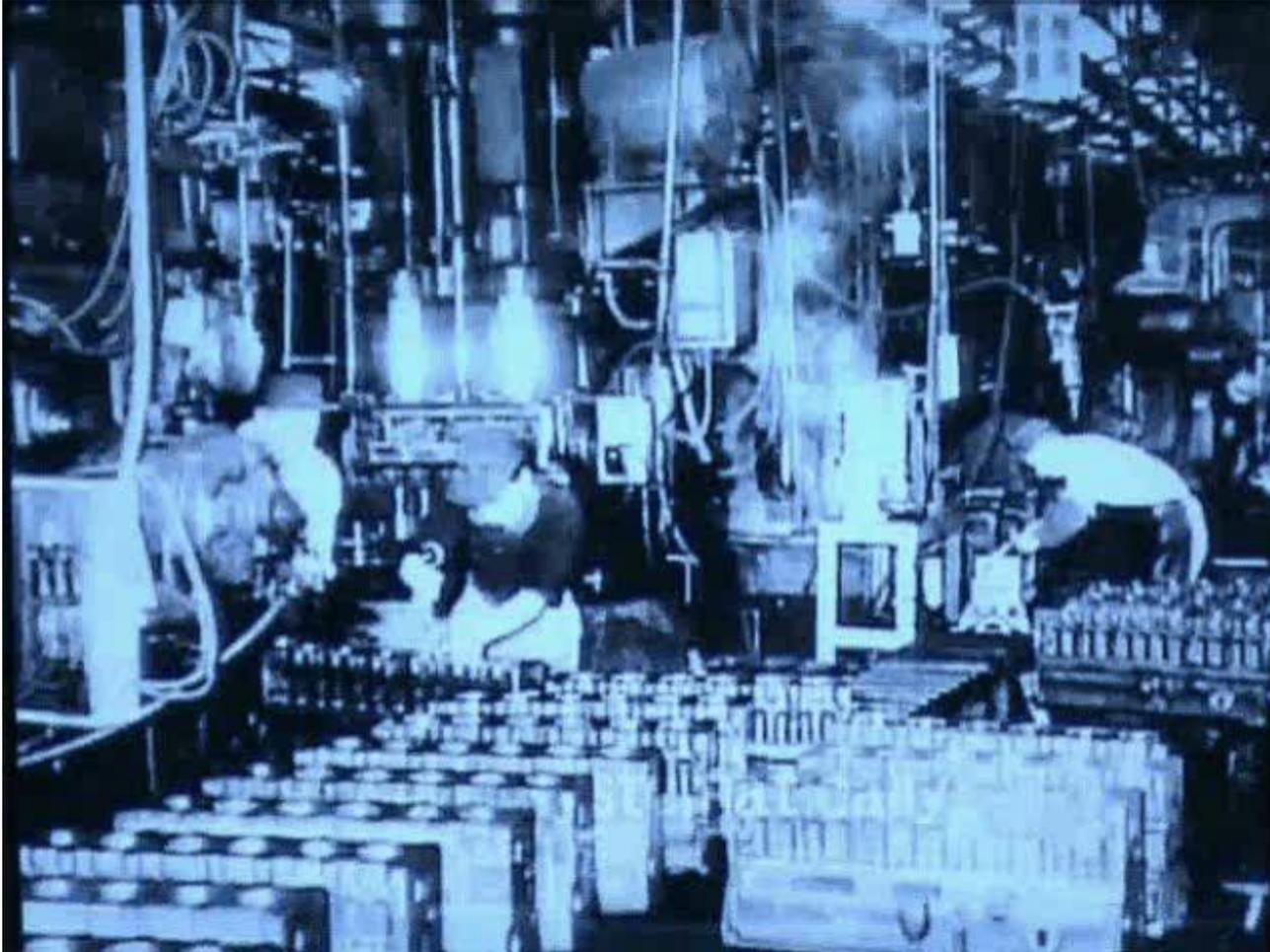
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Origin of Kanban

Toyota Production System



Developed in 1947 by **Taiichi Ohno**, the inventor of the Toyota production system, Kanban is an implementation of the control process known as the pull or fetch principle in production.

Taiichi Ōno: The inventor of the Toyota production system („just in time“)



Taiichi Ōno (1912-1990)

Term and Origin

- > Kanban is Japanese and means:
"Signal Card"
- > Originally from the Toyota production system:
Avoidance of:
 - > Muda (= Resource-consuming tasks without added value)
 - > Mura (= Irregularities in the process)
 - > Muri (= Overload)



Toyota production system – in use worldwide



	Teile-Nr.	
Regalfach	Materialbezeichnung	
	Teile-Nr.	
Regalfach	Materialbezeichnung	
	Teile-Nr.	
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Regalfach	Materialbezeichnung	
	Teile-Nr.	
Regalfach	Materialbezeichnung	

Page 1

Kanban Board in Production



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Kanban Principles

The 4 Basic Principles (after David J. Anderson)

1. Kanban starts where a system is at the moment.
2. Kanban respects the existing order.
3. Kanban strives for incremental, evolutionary changes.
4. Kanban requires leadership at all levels of the organization.

What is agile here ?

Core Practices

1. Making work visible
2. Limit the work in progress
3. Manage the flow
4. Explicitly define and adhere to process rules
5. Enable feedback mechanisms
6. Making improvements collaboratively



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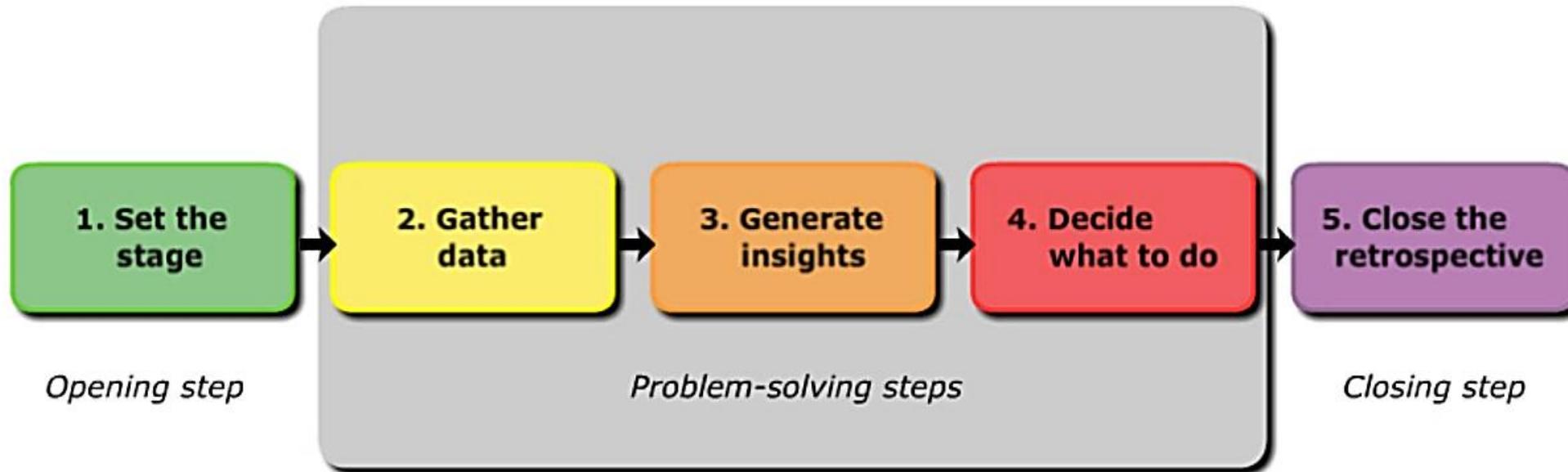


Continuous Improvement

Kaizen: Continuous Improvement



Continuous Improvement: 5 Steps



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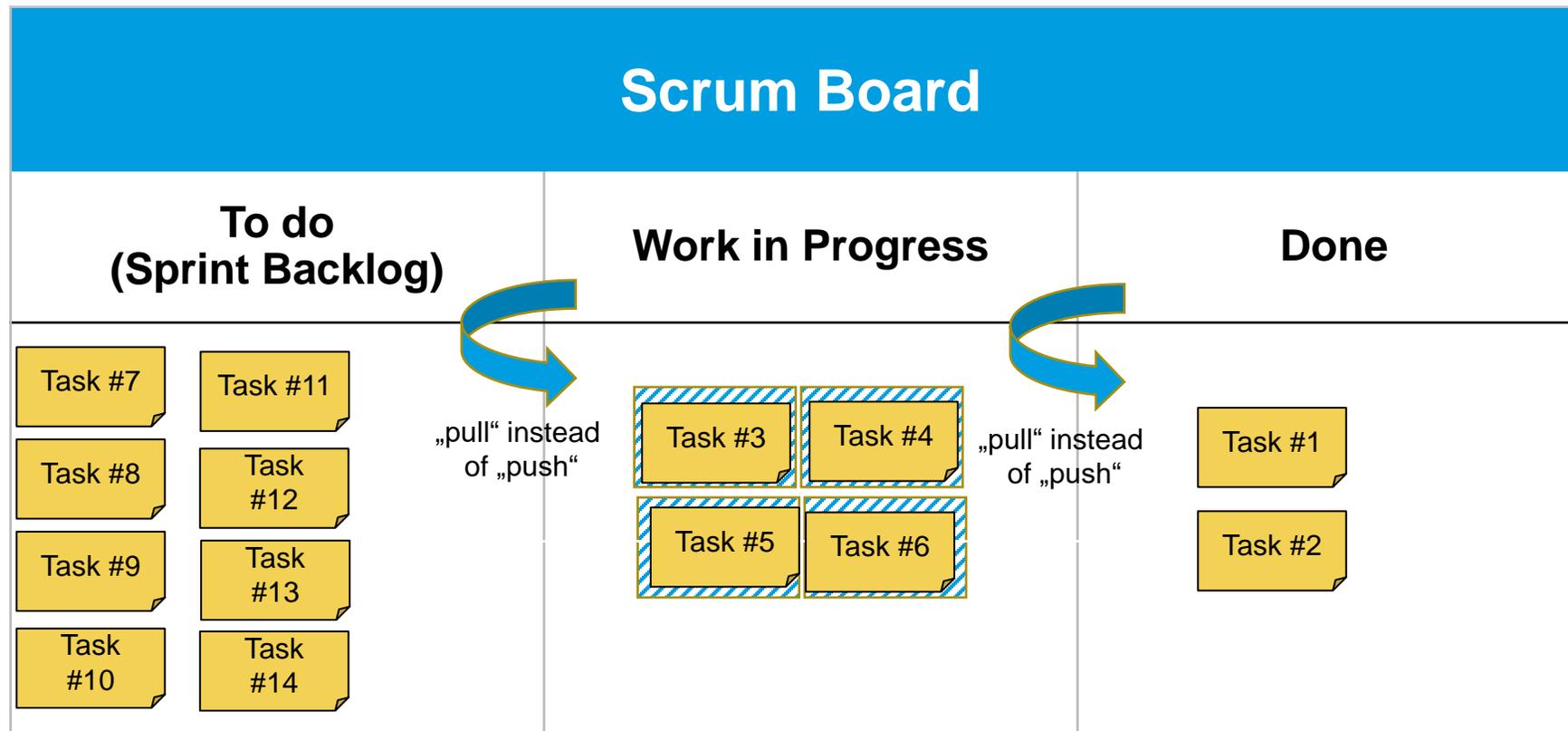
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Visualization

Kanban Board

- > The Scrum Board makes blockages visible and makes it easier to conduct the daily Scrum meeting.



Work in Progress - Motivation



- > "Congested highway" does not allow for fast travel.
- > WiP improves throughput, not utilization

Work in Progress Limits

- > The number of active works in the Kanban system is limited
- > Limitation of active work per work step

ADVANTAGES

- > Task changes are avoided
- > Reduced throughput times
- > Higher quality
- > Better predictability / adherence to deadlines
- > Less disruption

„Pull Principle“

Example Kanban Board with WiP Limit



IT Tools for Kanban

JIRA (Atlassian)

JIRA Software

Teams in Space
Scrum: Teams in Space

TIS-70 Scrum Board

QUICK FILTERS: [Critical partners](#) [Only my partners](#) [Recently updated](#)

12 To do	2 In progress	3 Done
<p>TIS Developer Love 3 issues</p> <p>TIS-37 ↑ Service should return prior trip details and info SeeSpaceEZ plus 2</p>	<p>TIS-10 ↑ Bad JSON data coming back from hotel API SeeSpaceEZ plus</p>	<p>TIS-8 ↑ Requesting flights is now taking > 5 seconds SeeSpaceEZ plus</p>
<p>Everything Else 21 issues</p> <p>TIS-68 ↑ Homepage footer uses an inline style-should use class Large Team Support</p> <p>TIS-20 ↑ Engage Saturn Shuttle lines for group tours Space Travel Partners 3</p> <p>TIS-12 ⊘ Create 90 day plans for all departments in Mars office</p>	<p>TIS-17 ↑ Engage Saturn's Rings Resort as preferred Space Travel Partners</p>	<p>TIS-56 ↑ Add pointer to main css file to create child themes Large Team Support</p> <p>TIS-45 ↑ Email non registered users to sign up with TIS SeeSpaceEZ plus</p>

Trello (Atlassian)

The screenshot shows a Trello board for 'agile@nlc' with a Kanban workflow. The board is divided into four columns: 'To Do', 'Im Gange', 'Fertig', and 'SPRINT ENDE Sprint #1: 2. Mai 2019'. Each card in the 'Im Gange' and 'Fertig' columns has a progress indicator (a bar) and a due date. The 'Fertig' column cards also have a green checkmark icon. The 'To Do' column has three cards with descriptions and assignees. The 'SPRINT ENDE' column has a 'Sprint Review' card with a pink unicorn icon. The board interface includes a top navigation bar with the team name, a star icon, a search bar, and a 'Privat' status indicator. The background of the board is a blurred image of white flowers.

To Do

- Abstimmung mit Sales&Marketing (Bettina) bzgl. professioneller grafischer Umsetzung der Sales Präsentation (Lead: HB)
- PM in 60 Sek.-Videos produzieren zu: Scrum-Artefakte, Rollen etc.
- PM in 60-Sek.-Videos sukzessive auf Englisch nachziehen

Im Gange

- Interview mit Gabor in der dritten April Woche vereinbaren (MM)
- Überblick über unsere Trainings- und Beratungsangebote zu Agilität, soweit sich das standardisieren und beschreiben lässt (Lead: JS)
- next level-Ansatz zu Agilität entwickeln, v.a. eine gute Grafik für Salespräsentation und Agilität-Folder (Lead: MM)
- Interviewergebnisse aufbereiten und konsolidieren (Lead: MM)

Fertig

- Interview mit Verena Evers am 1.4.19 geführt (MM)
- Interview mit Clemens Pizzinini am 1.4.19 geführt (MM)
- Vorgehensmodel "Products & Solutions in ppt abbilden (MM/JS)
- Interview mit Egon Hren am 3.4.19 geführt (MM)
- Interview mit Gunter G. am 4.4.19 geführt (MM)

SPRINT ENDE Sprint #1: 2. Mai 2019

- Sprint Review

Teams (Microsoft)

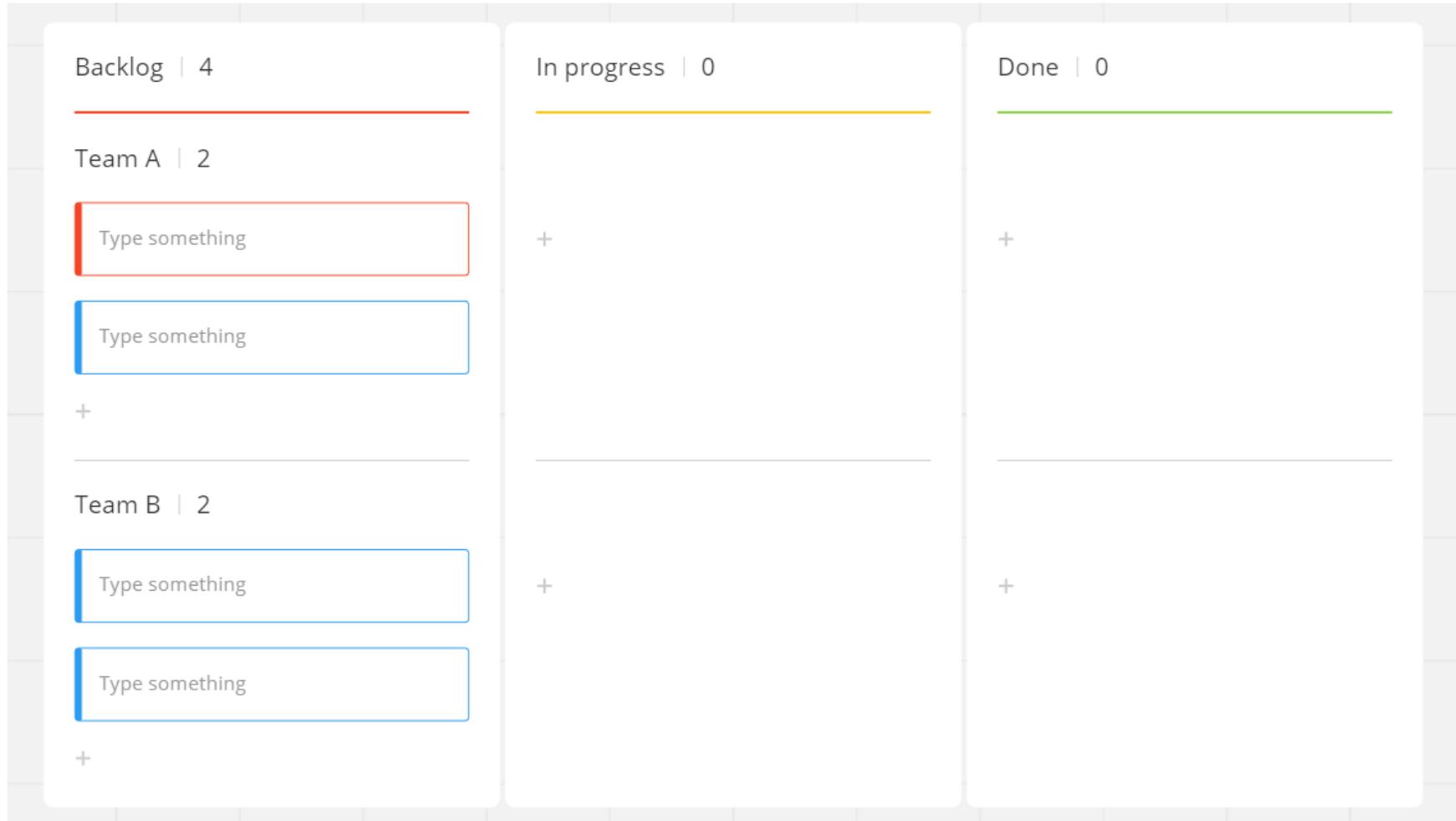
MOP - MOdularisierungsProgramm > Methodenmanagement

Unterhaltungen Dateien Wiki Backlog Methoden Landkarte

IDEE	BACKLOG	IN PROGRESS
+	+	+
next process light	PM-Guideline	Projektorganisation
PzM-Guideline	Projektkategorisierung	Kostenmanagement
next process	next project light	Ressourcenmanagement
Prozessoptimierung	Projektdefinition-/Projektwürdigkeit	Terminmanagement
Prozesserhebung	EPM-Prozesse	Leistungsmanagement
Prozessanalyse	Risikomanagement	
Prozessdokumentation	Änderungsmanagement	
Prozesssteuerung	PM-Karrierpfad	
Pz-Modellierungsrichtlinie	Projektkommunikation	
Prozesslandkarte	Berichtswesen	
	Portfolioaufbau- /Steuerung	



Miro



Lean (also part of Toyota Production System) and the 7 Wastes

Lean: 7 Wastes

Partially
done
work

Extra
processes

Extra
features

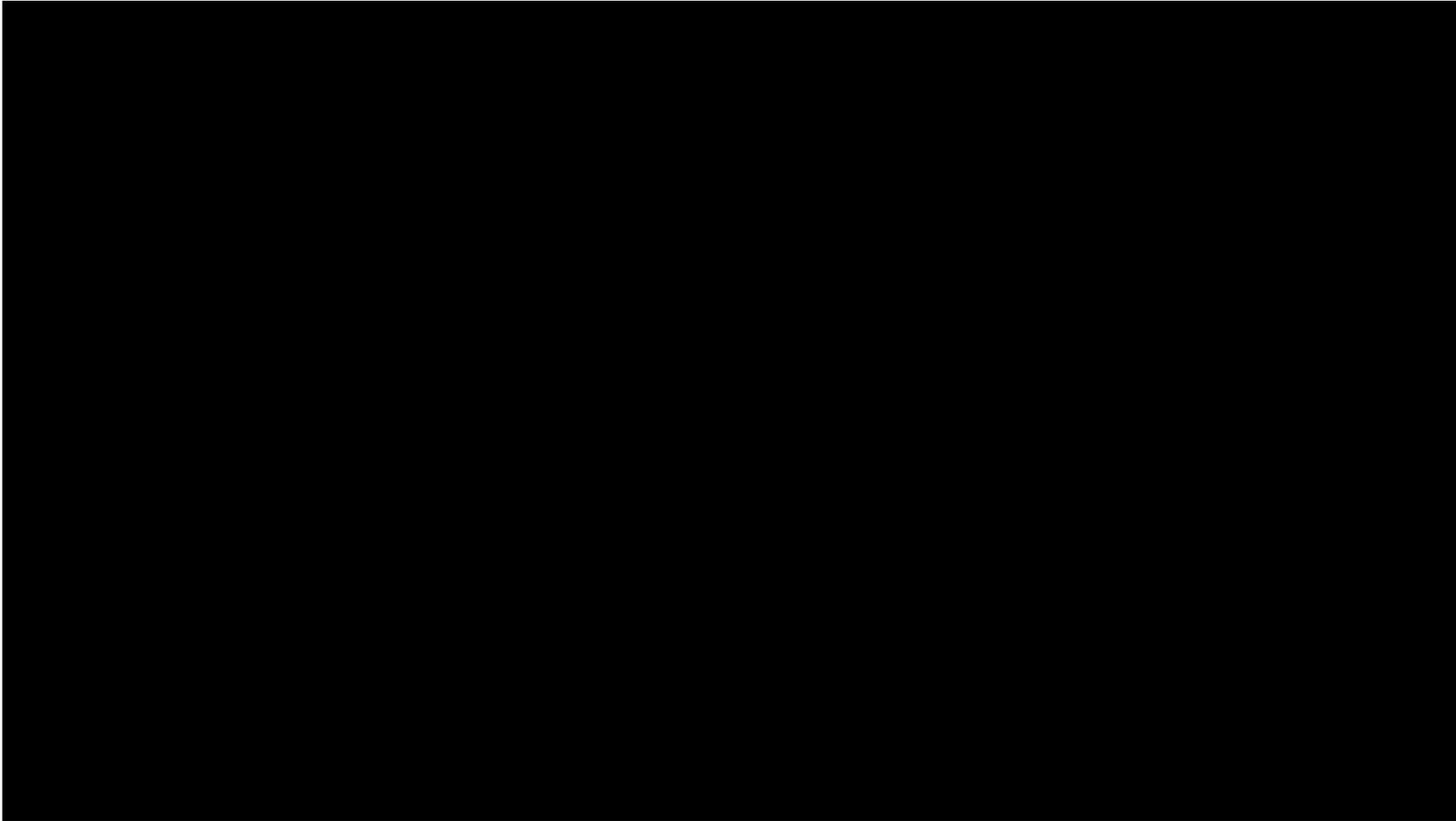
Task
switching

Waiting

Motion

Defects

7 Wastes Example



Question from the beginning

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